

Service Manual



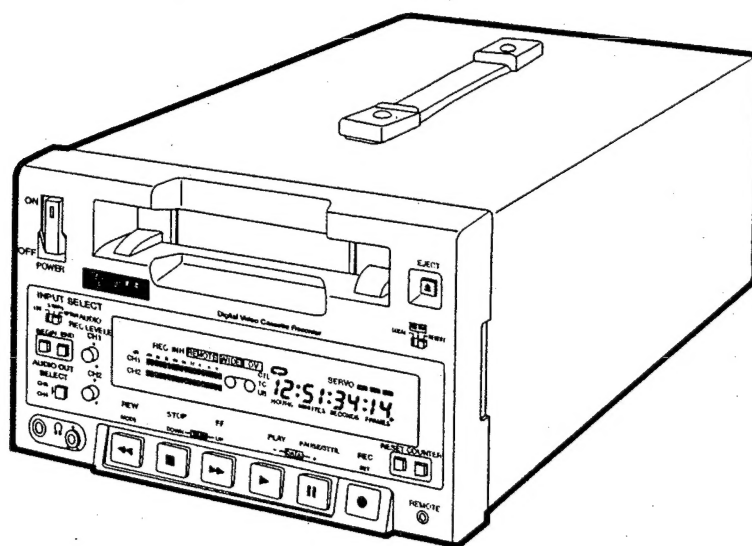
Digital Video Cassette Recorder

AJ-D230HP

Digital Video Interface Board

AJ-YAD230P

- Sec. 1** *Operating Instructions*
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Replacement Parts Lists*



Please refer to the Service Manual AJ-D230P (Vol. 1 & Vol. 2) for "Disassembly Procedure", "Mechanical Adjustment Procedure" and "Block, Schematic & Circuit Board Diagrams".

Panasonic

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WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This Service Manual contains technical information which will allow service personnels to understand and service the PANASONIC DVCPRO Digital Video Cassette Recoder AJ-D230HP and Digital Video Interface Board AJ-YAD230P.

If the part or circuit is changed or modified, this information will be followed by supplementary Service Manual to be filed with original manual.

NOTE

Please refer to the Service Manual AJ-D230P as following items.

(Vol.1 VSD9703MG04A, Vol. 2 VSD9703MG04B)

Item	AJ-D230 Service Manual
Flash Memory Version-up	Vol. 1 Page 2-1
Disassembly Method	Vol. 1 Page 2-14
Mechanism Adjustment	Vol. 2 Page 6-3
Mechanical Parts Replacement	Vol. 2 Page 6-46
Schematic Diagram	Vol. 1 Section 3 Note: The following items are refer to this Service Manual. <ul style="list-style-type: none">• AV-SYSCON• SERVO• VIDEO I/O• DIGITAL CORE• MOTHER
Circuit Board Diagram	Vol. 1 Section 4 Note: As same as above note.

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Section 1. Operation Instructions

Section 2. Service Information

Section 3. Schematic Diagrams

Section 4. Circuit Board Diagrams

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Section 6. Digital Interface Board AJ-YAD230P

Section 7. Exploded Views & Replacement Parts Lists

SPECIFICATIONS

GENERAL

Power supply:	120 V AC, 50Hz-60Hz
Power consumption:	49W
Ambient operating temperature:	41°F to 104°F (5°C to 40°C)
Ambient operating humidity:	35% to 80%
Weight:	15.4 lbs. (7.0 kg)
Dimensions (W × H × D):	8-7/16" × 5-1/4" × 15-7/16" (214 × 132 × 391 mm)
Recording format:	DVCPRO
Recording tracks:	Digital video
Time code:	Recorded in sub-code area
Digital audio:	2 channels
Cue track:	1 track
Control (CTL):	1 track
Tape speed:	33.820 mm/sec.
Recording time:	126 minutes (using AJ-P126LP tape) 66 minutes (using AJ-P66MP tape)
Tape used:	1/4" thin magnetic layer metal tape
FF/REW time:	Within 3.5 min. (using AJ-P126LP tape)

VIDEO

(Digital video)	Sampling frequency:	13.5 MHz for Y; 3.375 MHz for P _B /P _R
	Quantizing:	8 bits
	Error correction:	Reed-Solomon product code
(Line IN/line OUT)	Video band:	30 Hz to 4.5 MHz (−1±1 dB) for Y
	Y/C delay:	Less than 20ns
	K factor:	Less than 3%
(Input connectors)	Line input:	BNC × 1; 1.0 V _{P-P} , 75 Ω
	SYNC input:	BNC × 1; 1.0 V _{P-P} , 75 Ω
	S-VIDEO:	4P × 1; Y: 1.0 V _{P-P} , 75 Ω C: 0.286 V _{P-P} , 75 Ω (burst level)
(Output connectors)	Line output:	BNC × 1; 1.0 V _{P-P} , 75 Ω
	Monitor output:	BNC × 1; 1.0 V _{P-P} , 75 Ω
	S-VIDEO:	4P × 1; Y: 1.0 V _{P-P} , 75 Ω C: 0.286 V _{P-P} , 75 Ω (burst level)

AUDIO

(Digital audio)	Sampling frequency:	48 kHz
	Quantizing:	16 bits
	Frequency response:	20 Hz to 20 kHz (+1.0 dB −2.0 dB)
	Dynamic range:	More than 85 dB (1 kHz, emphasis OFF, "A" weighted)
	Distortion:	Less than 0.1% (1 kHz, emphasis OFF, reference level)
	Crosstalk:	Less than −80 dB (1 kHz, between 2 channels)
(Input connectors)	Line input (CH1/CH2):	PHONO × 2; −8 dBV, 47 kΩ
(Output connectors)	Line output (CH1/CH2):	PHONO × 2; −8 dBV, 1 kΩ
	Headphones output:	M3 stereo, variable level (max. −32 dBV or more), 8Ω

OTHER INPUT/OUTPUT CONNECTORS

RS-232C:	D-SUB, 25P, RS-232C interface
Wired remote control:	M2 jack (simple remote control)

Display Tube

Counter:	8 digits (CTL/TC/UB selectable, remaining tape)
Audio level meter:	18 steps
Other:	REC/REC INH, REMOTE, WIDE, "Consumer-use cassette loaded" display, REPEAT, SERVO, Channel condition, "Cassette loaded" display

IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

CAUTION:

Do not install or place this unit in a bookcase, built in cabinet or in another confined space in order to keep well ventilated condition. Ensure that curtains and any other materials do not obstruct the ventilation condition to prevent risk of electric shock or fire hazard due to overheating.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

 is the safety information.

- Do not insert fingers or any objects into the video cassette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the recorder and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the recorder when not in use.
- Do not block the ventilation slots of the unit.

- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Cassette tape can be used for either Color or Black & White recording.
- Do not attempt to disassemble the recorder. There are no user serviceable parts inside.
- If any liquid spills inside the recorder, have the recorder examined for possible damage.
- Refer any needed servicing to authorized service personnel.

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 M Ω and 5.2 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

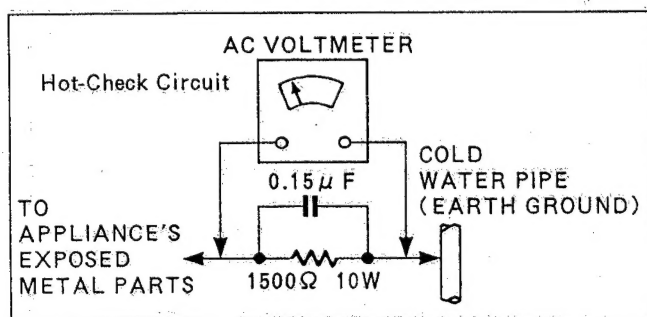


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5 K Ω , 10W resistor, in parallel with 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, \pm 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

SECTION 1

OPERATING INSTRUCTIONS

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The model AJ-D230H is a digital VTR which uses 1/4-inch wide tapes. It features digital compression technology which significantly reduces the deterioration in the picture and sound quality during dubbing compared with conventional analog systems. With its compact and lightweight design, the unit can be carried around with the greatest of ease, and it is also easy to install it in a rack. An interactive format is used to perform the unit's settings while monitoring the menus on the screen of the TV monitor.

The model AJ-D230H is provided with an RS-232C connector as a standard feature to enable the unit to be operated by remote control from a computer.

Features

Compact size and light weight

The unit measures 8-7/16" wide, 5-1/4" high and 15-7/16" deep, and it weighs only 15.4 lbs. Grips are incorporated to make the unit easy to carry.

2-channel digital audio with high sound quality

Computer control

The unit can be operated by remote control from a computer by connecting the RS-232C cable between the unit and the computer.

Up to 126 minutes of recording

Either news-gathering cassette tapes (max. 66 minutes) or general-purpose cassette tapes (max. 126 minutes) can be used. In both cases, the tape is one-fourth of an inch wide to achieve a compact design.

Compatibility with consumer-use equipment

Consumer-use cassette tapes which have been shot using a consumer-use digital camera can be played back on this unit using the cassette adaptor (AJ-CS750P: option).

Please note that the LP mode is not supported.

Time code

This unit incorporates a time code generator (TCG)/time code reader (TCR).

Repeat playback

Repeat playback can be performed continuously or only once for any section of the tape.

Menu-driven set-up

An interactive system is used to perform the unit's settings while monitoring the menus appearing on the screen of the TV monitor.

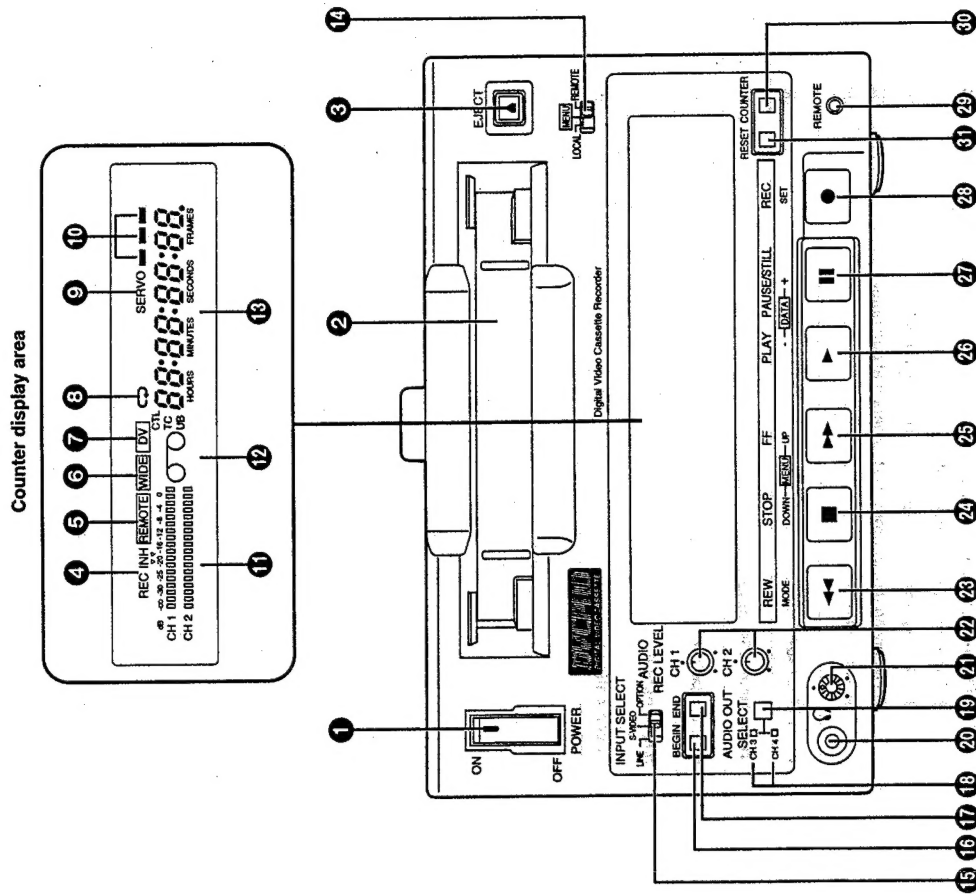
Remote control

Connection of the AG-A11 remote controller (option) enables the unit to be operated at a distance of about 5 meters.

Digital interface

By installing the digital interface board (option) and connecting the unit using the DVCPRO terminal (complying with the IEEE1394 standard), it is possible to dub tapes with hardly any resulting deterioration in the picture and sound quality at all.

Front Panel



Front panel

1 POWER switch

When the ON side is pressed, the power is turned on, and the counter display area lights.

2 Cassette slot

A news gathering cassette, general-purpose cassette or consumer-use cassette with an adaptor is loaded through this slot. Consumer-use cassettes can be played back only.

3 EJECT button

When this is pressed, the tape is unloaded, and several seconds later the cassette is automatically ejected. When the counter display area shows the CTL display, the display is now reset.

4 REC/REC INH lamp

REC: This lights during recording.

REC INH: This lights when the cassette has been set to the accidental erasure prevention status.

It also lights when REC INHIBIT has been set to ON on the setup menu. In this status, recording is not possible.

5 REMOTE lamp

This lights when the LOCAL/MENU/REMOTE switch has been set to the REMOTE position.

6 WIDE lamp

This lights in the 16:9 wide screen mode.

7 "Consumer-use cassette loaded" display lamp

This lights when a cassette recorded on a consumer-use DV unit has been loaded.

8 REPEAT lamp

This lights during repeat playback.

9 SERVO lamp

This lights when the drum servo and capstan servo are locked.

10 Channel condition lamps

One of these lamps lights (green → blue → red) in accordance with the status of the error rates.

Green: This lights when the error rates for the video and audio playback signals are both satisfactory.

Blue: This lights when the error rate for either the video or audio playback signals has deteriorated. The playback picture is still normal even while this lamp is lighted.

Red: This lights when either the video or audio playback signals are corrected or interpolated.

11 Level meter

This displays the audio signal levels. The input audio signal levels are displayed during recording and E-E selection; the output audio signal levels are displayed during playback.

12 "Cassette loaded" display lamp

This lights when a cassette has been loaded into the unit.

13 Counter display area

The TC and CTL counts, on-screen information and messages appear in this area.

14 LOCAL/MENU/REMOTE switch

This is operated when menu settings are to be performed or when the unit is to be controlled from a remote location.

LOCAL: For controlling the unit using the controls on the unit's operation panel.

MENU: For setting the on-screen menu.

REMOTE: For controlling the unit with an RS-232C or other external control unit.

15 INPUT SELECT switch

This is used to select the input signals.

LINE: For recording signals which have been supplied to the video signal input connector.

S-VIDEO: For recording signals which have been supplied to the S-VIDEO input connector.

OPTION: For supplying video and audio signals from an optional board and recording them.

16 BEGIN button

This sets the repeat playback start point, and it displays the currently entered start point.

17 END button

This sets the repeat playback end point, and it displays the currently entered end point.

18 CH3/CH4 lamp

This lights during DV format playback when the audio signals have been set in CH3 and CH4.

19 AUDIO OUT SELECT button

This selects the audio signals which are to be output.

20 Headphone jack

When stereo headphones are connected here, the recording or playback sound can be monitored through the headphones.

21 Volume control

This is for adjusting the headphones volume.

22 Volume recording level control

This is for adjusting the PCM audio signal CH1/CH2 recording level.

23 REW button

When this is pressed, the tape is rewind, and when "TAPE" is set for the "S/F/R EE SEL" set-up menu item, the playback picture can be monitored.

24 STOP button

When this is pressed, the tape stops traveling, and when "TAPE" is set for the "S/F/R EE SEL" set-up menu item, the still picture can be monitored. Even in the stop mode, the drum continues to rotate with the tape kept in close contact with the drum. After the unit has been kept in the stop mode for a specific period of time, it is automatically set to the standby off mode in order to protect the tape. It is set to the stop mode immediately after a cassette has been loaded into the unit.

25 FF button

When this is pressed, the tape is fast forwarded, and when "TAPE" is set for the "S/F/R EE SEL" set-up menu item, the playback picture can be monitored.

26 PLAY button

When this is pressed, playback commences. When it is pressed together with the REC button, recording commences.

27 PAUSE/STILL button

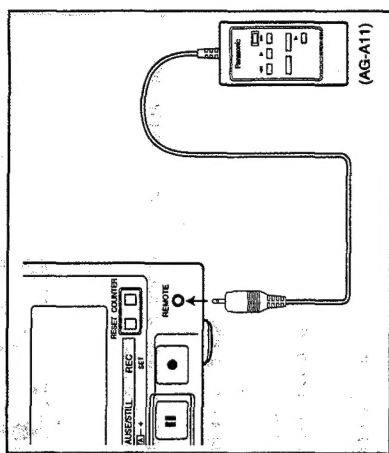
When this is pressed during recording, the tape travel is temporarily stopped (pause mode). When it is pressed again, recording is resumed. When this is pressed during playback, the still picture mode is established. When it is pressed again, playback is resumed.

28 REC button

When this is pressed together with the PLAY button, recording commences.

29 Remote control connector

When the remote controller (AG-A11) is connected to this connector, the unit can be operated from a distance by this controller instead of by its function buttons. In this case, the LOCAL/MENU/REMOTE switch must be set to the REMOTE position.



30 COUNTER button

This switches the display on the counter display area.

CTL: The tape timer (control signal) is displayed.

TC: The time code is displayed.

UB: The user's bit is displayed.

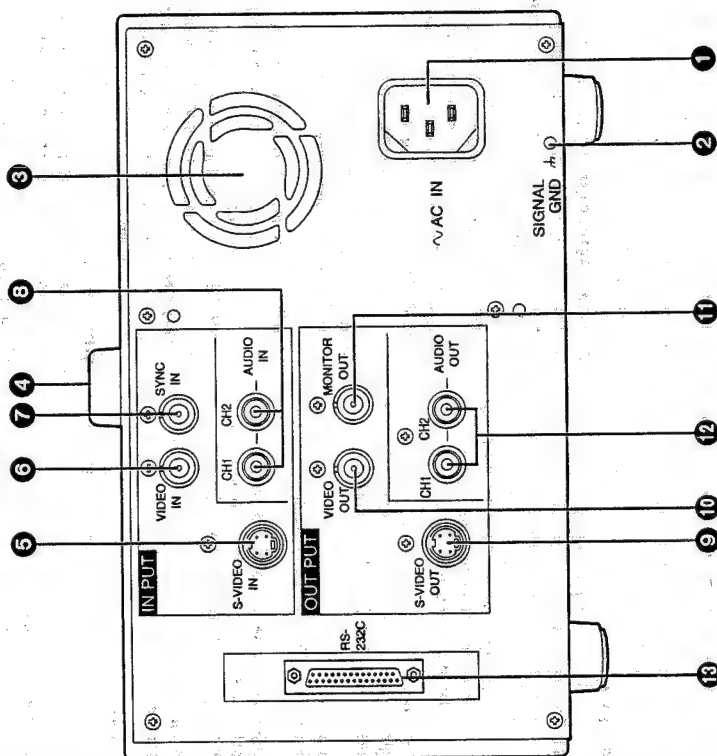
Remaining tape:

The amount of tape remaining is displayed.

31 RESET button

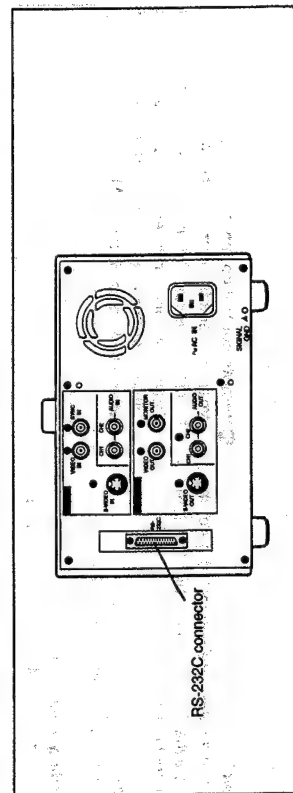
When this is pressed in the CTL mode, the counter display is reset to 00:00:00.00.

Connector section



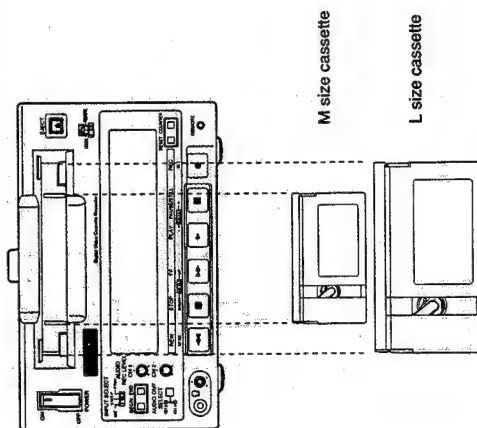
Connector section

- 1 AC IN connector**
Use the power cord supplied to connect this connector to the power outlet.
- 2 SIGNAL GND terminal**
This is connected to the signal ground terminal on the unit connected in order to reduce the noise. It is not a safety ground.
- 3 Fan motor**
This is for cooling the unit.
- 4 Handle**
- 5 S-VIDEO IN connector**
This is the input connector for the S-VIDEO video signals.
- 6 VIDEO IN connector**
This is the input connector for the analog video signals.
- 7 SYNC IN connector**
This is connected to the composite sync signals of a reference sync signal generator if synchronization with an external reference sync signal is to be obtained during playback.
- 8 AUDIO IN connector**
This is the input connector for the analog audio signals.
- 9 S-VIDEO OUT connector**
This is the output connector for the S-VIDEO video signals.
- 10 VIDEO OUT connector**
This is the output connector for the analog video signals.
- 11 MONITOR OUT connector**
This is the output connector for the video monitor signals. Superimposed video signals can be output from it.
- 12 AUDIO OUT connector**
This is the output connector for the analog audio signals.
- 13 RS-232C connector**
Connecting the optional RS-232C cable to this connector enables many kinds of computerized operations to be performed for the unit.



Type	Description
Consumer-use cassette (S size cassette)	This is exclusively designed for use in consumer-use camera/recorder units. It can be used in the unit for playback only provided that the cassette adaptor (option) is obtained. Use of Panasonic consumer DV cassette tape is recommended. Note that inserting a cassette tape without using the cassette adaptor can damage the unit.
M size cassette	Recording/playback tape with a maximum length of 66 minutes (AJ-P12MP, AJ-P24MP, AJ-P33MP, AJ-P48MP, AJ-P66MP)
L size cassette	Recording/playback tape with a maximum length of 126 minutes (AJ-P34LP, AJ-P66LP, AJ-P94LP, AJ-P126LP)

Align the cassette tape with the center of the loading slot, and push it in gently. It will then be loaded automatically.



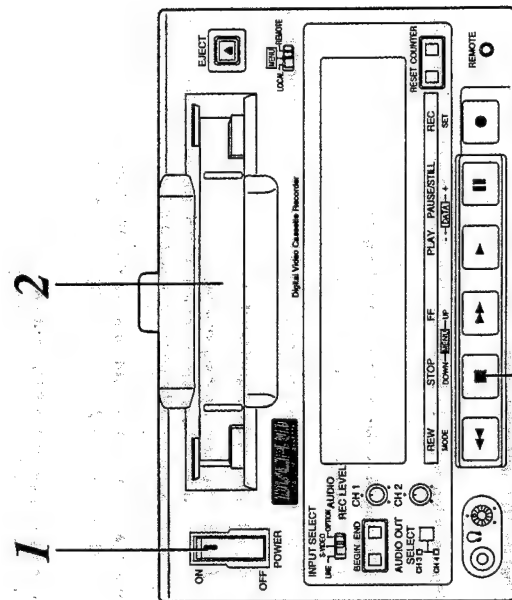
<Precautions for playing back consumer-use DV tapes>

- A consumer-use tape can be used for playback only.
- A consumer-use tape recorded in LP mode cannot be played back.
- Since a consumer-use tape cannot be used for recording, the unit's functions related to recording are prohibited.
- The maximum traveling speed of a consumer-use tape is 32x normal tape speed.
- The still-picture images on a consumer-use tape may be disturbed.
- From the perspective of protecting the tape, refrain from cue-up operation using a consumer-tape wherever possible.
- When a consumer-use tape is employed, the maximum duration of the still timer is set to 10 seconds, and the total time during which the unit is allowed to be left standing in the still mode is set to 1 minute.
- The time code read disabled display may appear when a search is performed on a consumer-use tape or the still-picture image of such a tape is displayed.

Switching on the power and inserting the cassette

Before attempting to operate the unit, make sure that it has been connected properly.

- 1 Switch on the power.
- 2 Insert the cassette tape.
Insert the cassette tape into its prescribed position without forcing it in any way.
- 3 Check that the STOP lamp has lighted.
When the tape is inserted, the cylinder starts rotating automatically, the tape is loaded, and the unit is set to the stop mode.



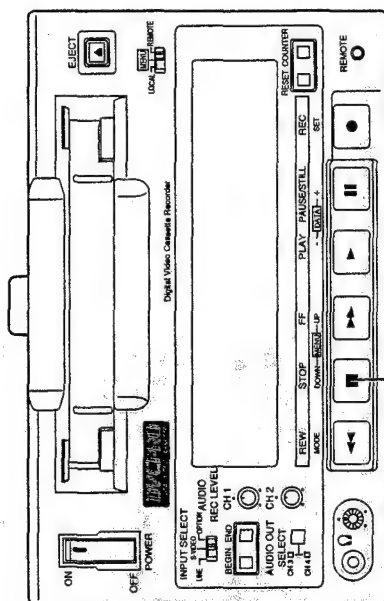
Stop mode

1 The unit is set to the stop mode when the STOP button is pressed.

- The STOP lamp lights and the tape stops travelling.
- In order to protect the tape, the unit is set to the tape protection mode after the period of time set in the "STILL TIMER" set-up menu item has elapsed. (See page 27) When the STOP, REW, FF or PLAY button is pressed, the unit is set to the corresponding mode.

<Precautions for setting the still timer>

- When the same part of the same tape is used repeatedly, the cumulative standby time in the same place increases.
- In order to protect the tape, set the standby time for the same place on the same tape to as short a duration as possible.



Recording

1 Set the accidental erasure prevention tab on the cassette tape to "recording," and insert the tape.

2 Press the STOP button to set the unit to the stop mode.

3 Check that the REC INH lamp is off.

4 Selecting the video and audio input signals and adjusting the audio signal level

4-1 Selecting the video and audio input signals

- 1 Connect the signals which are to be recorded.

- 2 Select the input signals using the INPUT SELECT switch on the front panel.

4-2 Adjusting the audio signal level

- 1 Adjust the audio input signal level.

The audio signals are recorded at the appropriate level when the level controls are set to the center click-stop position.

5 Press the PLAY button while holding down the REC button. The REC and PLAY lamps light, and recording is commenced.

6 To stop recording, press the STOP button. Recording is now ended, and the unit is set to the stop mode.

<Notes>

- A recording cannot be made properly on a tape on which the recording protection signal has been recorded as an input signal.
- During recording, check that the SERVO lamp is lighted. If the lamp is flashing or off, the images played back will be disturbed.

Pause/still recording (back-space assemble recording)

- 1** Press the PAUSE/STILL button while the cassette tape is playing. If the "AUTO BACK" set-up menu item has been set to ON, the tape will be rewound for 1 or 2 seconds starting at the position where the PAUSE/STILL button was pressed. (See page 25)
- 2** Press the REC button to set the unit to the REC PAUSE mode. The monitor display now switches to the E-E screen.
- 3** Press the PAUSE/STILL button to start the recording. The tape runs to the position where the PAUSE/STILL button was pressed in step 1, and the recording is started.

<Note>
The E-E screen now appears.

Playback

- 1** Insert the cassette tape.
- 2** Press the PLAY button. Normal playback is now commenced.
- 3** To stop playback, press the STOP button. The VTR is now set to the stop mode.

<Note>
During playback, check that the SERVO lamp is lighted. If the lamp is off or flashing, the images played back will appear disturbed.

Cue and Review

Keep pressing the FF or REW button during playback. While the button is held down, the tape is cued or reviewed at approximately 10x normal tape speed.

Normal playback is restored when the button is released.

- The cue track sound is output during cue or review if the "SEARCH CUE" set-up menu item has been set to ON. (See page 30)

Still-picture playback

Press the PAUSE/STILL button during playback. When it is pressed again, normal playback is restored.

- No sound is heard during still-picture playback.

Frame advance

The tape is advanced or reversed frame by frame when the FF or REW button is pressed during playback.

- No sound is heard during frame advance or reverse.

Sound selection

Use the AUDIO OUT SELECT button to select the desired sound. By pressing the AUDIO OUT SELECT button, the mode for the audio output is selected in the sequence shown below.

Mode	AUDIO OUT connectors		Display tube	LED
	CH1 output	CH2 output		
A	CH1	CH2	CH1 CH2	CH3 <input type="checkbox"/> CH4 <input type="checkbox"/>
B	CH1		CH1	CH3 <input type="checkbox"/> CH4 <input type="checkbox"/>
C	CH2		CH2	CH3 <input type="checkbox"/> CH4 <input type="checkbox"/>
D	CH3	CH4	No display	CH3 <input checked="" type="checkbox"/> CH4 <input checked="" type="checkbox"/>
E	CH3		No display	CH3 <input checked="" type="checkbox"/> CH4 <input type="checkbox"/>
F	CH4		No display	CH3 <input type="checkbox"/> CH4 <input checked="" type="checkbox"/>
G	CH1+CH3	CH2+CH4	CH1 CH2	CH3 <input checked="" type="checkbox"/> CH4 <input checked="" type="checkbox"/>

The shading denotes that the selection is valid only during playback using the DV format in the 4-channel mode.

Sequence of mode selection

A → B → C → D → E → F → G

Repeat playback

Setting the BEGIN and END points [Menu mode]

- 1 Set the VTR to the menu mode.
(Set the LOCAL/MENU/REMOTE switch to the MENU position.)
- 2 Select the "BEGIN/END PRESET" set-up menu item, and press the MODE (REW) button. (See page 27)
- 3 Select TC or CTL using the COUNTER button.
- 4 Select either BGN or END using either the BEGIN button or the END button.
- 5 Select the digit (flashing display) in which the change is to be made using the UP (FF) and DOWN (STOP) buttons.
The frame digit cannot be selected. "00" is displayed for the frame value at all times.
- 6 Press the DATA+ (PAUSE/STILL) button or DATA- (PLAY) button to change the value.
- 7 Upon completion of the settings, press the SET (REC) button.
The settings are now stored in the memory, and the display returns to the regular menu screen.
- 8 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Notes>

- When an item has no setting, "----" is displayed.
When repeat playback is initiated in this status, the start of the tape serves as the BEGIN point and the end of the tape serves as the END point.
- When the RESET button is pressed, the setting is reset to "00:00:00:00."
- If the MODE (REW) button is pressed without pressing the SET button upon completion of the settings, the time code setting is canceled, and the display returns to the regular menu screen.
- When the BEGIN or END button is used to set the digit in which the change is to be made to BGN or END, and then the DATA+ or DATA- button is pressed, it is possible to select whether an item is to be set or left unset.

<Menu screen>

```
CTL  BGN  - 00 : 00 : 00 : 00
      END  + 00 : 00 : 00 : 00
```

Setting the BEGIN and END points [Front panel]

- 1 Set the VTR to the local mode.
(Set the LOCAL/MENU/REMOTE switch to the LOCAL position.)
 - 2 Press the BEGIN or END button on the front panel to set the current position as the BEGIN or END point.
- ### Displaying the BEGIN and END points
- 1 Set the VTR to the remote mode.
(Set the LOCAL/MENU/REMOTE switch to the REMOTE position.)
 - 2 When the BEGIN or END button on the front panel is pressed, the BEGIN or END point is displayed while the button is held down.

Setting the repeat playback mode

- 1 Set the VTR to the menu mode.
(Set the LOCAL/MENU/REMOTE switch to the MENU position.)
- 2 Select the "MEMORY MODE" set-up menu item, and select the repeat playback mode. (See page 27)

Setting	Description of operation
OFF	Normal operation
MEM STOP	When the tape is fast forwarded or rewound, it stops near the BEGIN point.
REPEAT 1	When the tape is played to the END point, it is rewound to the BEGIN point where it stops.
CONTINUE	When the tape is played to the END point, it is rewound to the BEGIN point and played back, and this sequence of operation is repeated.

- 3 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Note>

- When the repeat play function is used over and over again for the same tape, the tape's images will deteriorate. Replace the tape with a new one after about a hundred repeat plays.
- Bear in mind that no operation will result when repeat play is to be performed using a consumer-use tape even if "CONTINUE" has been selected for set-up menu item No.300 (MEMORY MODE). (See page 27)

Time Code and User's Bit

Time code

The time code signal generated by the time code generator is recorded on the tape as a time code, it is read out by the time code (signal) reader, and used to display the absolute position of the tape in increments of hours, minutes, seconds and frames.

The time code is written in the sub-code area (data area) of the helical track. For this reason, it can be read out across a wide range of VTR playback speeds from the stop mode to slow playback and to high-speed playback.

The time code is indicated by the display or by the figures superimposed onto the screen.

TCR 00 : 07 : 04 : 24
↑ Hours Minutes Seconds Frames
↑

User's bit

The user's bit is a 32-bit (8-digit) information frame contained in the time code signals which is made available to the user. It enables the operator number and other information to be recorded.

The figures 0 to 9 and the letters ABCDEF can be used for this bit.

Time Code and User's Bit

Setting the time code

- 1 Set the VTR to the menu mode.
(Set the LOCAL/MENU/REMOTE switch to the MENU position.)
- 2 Select the "TC PRESET" set-up menu item, and press the MODE (REW) button.
(See page 28)
- 3 Select the digit (flashing display) in which the change is to be made using the UP (FF) and DOWN (STOP) buttons.
- 4 Press the DATA+ (PAUSE/STILL) button or DATA- (PLAY) button to change the value.
- 5 Upon completion of the settings, press the SET (REC) button.
(The display returns to the regular menu screen.)
- 6 Press the SET (REC) button again.
(The settings are now stored in the memory, and the menu mode closes.)
- 7 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Notes>

- The current time code value is displayed as the default setting.
- When the RESET button is pressed, the setting is reset to "00:00:00:00."
- The time code cannot be set unless the "TC MODE" set-up menu item has been set to "P-REC" or "P-FREE." (See page 28)
- If the MODE (REW) button is pressed without pressing the SET button upon completion of the setting, the time code setting is canceled, and the display returns to the regular menu screen.

Setting the user's bit

- 1 Set the VTR to the menu mode.
(Set the LOCAL/MENU/REMOTE switch to the MENU position.)
- 2 Select the "UB PRESET" set-up menu item, and press the MODE (REW) button.
(See page 28)

The remaining steps in the setting procedure are the same as for the time code.

Time code and user's bit playback

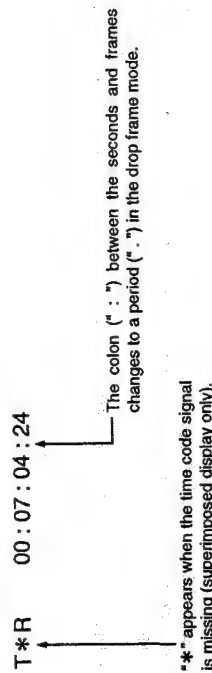
- 1 Set the VTR to the STOP mode.
- 2 Set to TC or UB using the COUNTER button.

TC : The time code is displayed.
 UB : The user's bit is displayed.
 • When the time code can no longer be read, interpolation is provided by the control signal if the COUNTER button is set to the CTL position.

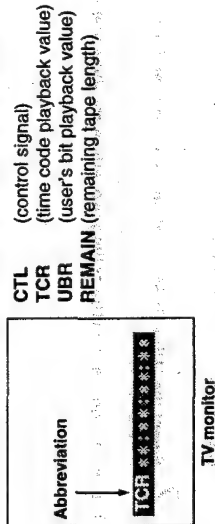
- 3 Press the PLAY button.
 Playback is commenced, and the time code appears on the display. When the "DISPLAY SEL" set-up menu item is set to "TIME" or "T, STA," the time code value is superimposed onto the video signals which are output from the MONITOR OUT connector.
 (See page 24)

- <Notes>
- The colon between the seconds and frames changes to a period while the drop frame time code is being read.
 - If the time code signal is missing, interpolation is automatically provided by the CTL signal.

The display changes as shown below.

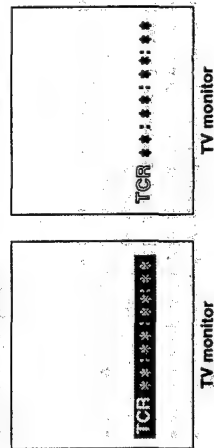


When the MONITOR OUT connector has been connected to the TV monitor, the abbreviations corresponding to the control signal, time code, etc. are displayed on the TV monitor.



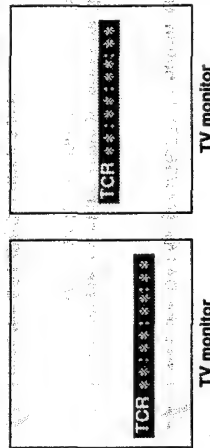
Characters displayed

The background of the characters superimposed onto the display can be changed using the "CHARA TYPE" set-up menu item. (See page 24)



Display position

The position where the characters are superimposed onto the display can be changed using the "CHARA H-POS" and "CHARA V-POS" set-up menu items. (See page 24)

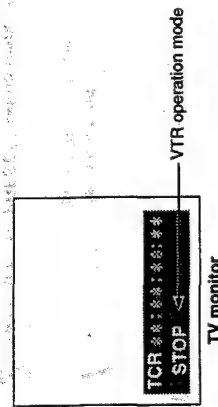


<Note>

The counter display is made to appear for as long as the MODE button is held down, enabling the settings to be checked. Even while the MODE button is held down, the DATA+ and DATA- buttons can be used to perform settings while the actual situation is checked.

Operating mode

When "T, STA" has been selected for the "DISPLAY SEL" set-up menu item, the VTR's operating mode is also displayed. (See page 24)



Set-up (Default Settings)

The VTR's major settings are performed by making selections using a menu system. The set-up menus appear on the TV monitor when it is connected to the MONITOR OUT connector.

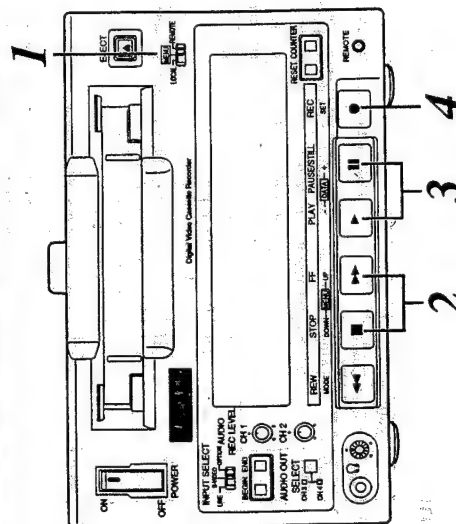
Changing a setting

- 1** Set the VTR to the menu mode.
(Set the LOCAL/MENU/REMOTE switch to the MENU position.)
- 2** Select the item to be set using the UP (FF) and DOWN (STOP) buttons. The cursor on the menu screen moves and selects the item.
The cursor (*) is moved to the previous set-up menu item number using the DOWN button and the next set-up menu item number using the UP button.
- 3** Press the DATA+ (PAUSE/STILL) button or DATA- (PLAY) button to change the setting.
- 4** Upon completion of the setting, press the SET (REC) button.
The change is now stored in the memory.
- 5** Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Note>
To return the setup selections to the factory (default) settings, press the RESET button while the SETUP menu is shown. The following message is then displayed.

SETUP-MENU INIT. SET
OK? (PUSH REC KEY)

- The default settings will be restored when the REC button is pressed.



Set-up Menus

BASIC menu

No.	Item	Setting		Description of settings
		Superimposed display	No.	
000	DISPLAY SEL	OFF TIME T, STA	0000 0001 0002	This sets what is to be displayed for the superimpose signals output from the MONITOR OUT connector. 0: No display 1: Only the time is displayed 2: The time and operation mode are displayed.
001	CHARA H-POS		0000 0001 0003 0007	This sets the horizontal position of the superimposed characters (8 settings to choose from). 0 1 3 7
002	CHARA V-POS		0000 0001 0003 0007	This sets the vertical position of the superimposed characters (8 settings to choose from). 0 1 3 7
003	CHARA TYPE	WHITE W/OUT	0000 0001	This selects the type of characters for the superimposed display and menu display. 0: White characters appear on a black back ground. 1: White characters with black borders appear.
005	MENU INHIBIT	OFF ON	0000 0001	This selects whether or not the menu settings are to be fixed. 0: The settings are not fixed. 1: The settings are fixed (and cannot be changed).

The underlined number and item are the factory settings.

<Notes>

- While setting "CHARA H-POS", "CHARA V-POS", and "CHARA TYPE", the counter display can be viewed by holding down the MODE button, allowing you to check the settings. You can also use the DATA+ and DATA- buttons while holding down the MODE button to adjust the values while you are viewing them.
- To set ON or OFF for the "MENU INHIBIT" item, first press the DATA+ or DATA- button while holding down the MODE button, and then select the setting. Continuously after performing the settings, press the SET button (REC button) to exit the menu. The MENU INHIBIT setting takes effect starting with the next menu mode.

OPERATION menu

No.	Item	Setting		Description of settings
		No.	Superimposed display	
100	LOCAL ENABLE	0000 0001	DISABLE ST. EJ	This selects the switches on the front panel which can be operated in the remote control mode. 0: None of the switches can be operated. 1: Only the STOP and EJECT switches can be operated.
101	TAPE TIMER	0000 0001	12H 24H	This selects the CTL counter display. 0: ± 12 -hour display 1: 24-hour display
102	S/R EE SEL	0000 0001	EE TAPE	This selects the EE/VV output during stop, fast forwarding or rewinding. 0: EE is output. 1: VV is output.
103	WIDE MODE	0000 0001 0002	AUTO WIDE NORMAL	This selects the WIDE mode. 0: Automatic detection. 1: The screen mode is forcibly treated as WIDE. 2: The screen mode is forcibly treated as NORMAL.
104	TAPE IN MODE	0000 0001 0002 0003	STOP REW PAUSE PLAY	This selects the operation which follows when the cassette is inserted. 0: STOP 1: Rewind 2: Play pause 3: Play
105	TAPE END MODE	0000 0001 0002 0003	STOP REW REW-EJ EJECT	This selects the operation which follows when the tape has reached the end. 0: Stop 1: Rewind 2: This rewinds the tape and ejects it upon completion of rewinding. 3: Eject
106	SERVO REF	0000 0001	AUTO EXT	This selects the sync signals of the servo. 0: Synchronization with the input signals; if no input signals are present, synchronization with the internal signals. 1: During playback, synchronization with the SYNC IN signals; if these signals are not present, synchronization with the internal signals.
<p>(AUTO) VIDEO IN connector: • Synchronized playback is performed using standard video signals. • With non-standard video signals, the switching is performed in such a way that playback is synchronized with the internal signals.</p> <p>(EXT) SYNC IN connector: • Use standard signals as the SYNC signals. • Non-standard signals cannot be used. Use of the BB (black burst) signal is recommended. • When an out-of-sync state occurs due to SYNC signal switching or interruption Set to the STOP EE mode or eject the cassette and then re-load it. This makes it possible for the synchronization to be reset.</p>				
107	AUTO BACK	0000 0001	OFF ON	This selects whether to automatically reverse (auto back) the tape to achieve back-space assembly recording. 0: No auto back 1: Auto back

The underlined number and item are the factory settings.

OPERATION menu

Item		Setting		Description of settings															
No.	Superimposed display	No.	Superimposed display																
108	FORMAT SEL	0000 0001 0002	DVCPRO DV DVCAM	This selects the format when an L cassette is used. 0: DVCPRO mode 1: DV mode 2: DVCAM mode															
<p><Note> The cassette tape is played back in one of the modes listed below depending on the tape type and settings used.</p> <table><tr><th colspan="3">FORMAT SEL setting</th></tr><tr><th>Type</th><th>DVCPRO</th><th>DVCAM</th></tr><tr><td>S size cassette</td><td>DV</td><td>DVCAM</td></tr><tr><td>M size cassette</td><td>DVCPRO</td><td>DVCAM</td></tr><tr><td>L size cassette</td><td>DVCPRO</td><td>DVCAM</td></tr></table> <p>Use tapes specially designed for DVCPRO applications with this unit. However, if DV tapes or DVCAM tapes are to be used in the playback mode, it is recommended that playback be limited to as short a period of time as possible.</p>					FORMAT SEL setting			Type	DVCPRO	DVCAM	S size cassette	DV	DVCAM	M size cassette	DVCPRO	DVCAM	L size cassette	DVCPRO	DVCAM
FORMAT SEL setting																			
Type	DVCPRO	DVCAM																	
S size cassette	DV	DVCAM																	
M size cassette	DVCPRO	DVCAM																	
L size cassette	DVCPRO	DVCAM																	
109	REC INHIBIT	0000 0001	OFF ON	This selects whether to inhibit recording on the VTR. 0: Recording is not inhibited. 1: Recording is inhibited.															

The underlined number and item are the factory settings.

INTERFACE menu

No.	Item	Setting		Description of settings
		No.	Superimposed display	
200	BAUD RATE	0000 0001 0002 0003 0004	1200 2400 4800 9600 19200	This sets the RS-232C transfer rate (baud rate).
201	DATA LENGTH	0000 0001	8BIT 7BIT	This sets the RS-232C data length.
202	STOP BIT	0000 0001	1BIT 2BIT	This sets the RS-232C stop bit length.
203	PARITY	0000 0001 0002	NONE ODD EVEN	This sets whether the RS-232C parity bit is to be used and, if so, whether with even or odd parity. 0: The parity bit is not used. 1: The parity bit is used with odd parity. 2: The parity bit is used with even parity.
204	ACK RETURN	0000 0001	OFF ON	This sets the RS-232C return data. 0: The ACK code is not returned. 1: The ACK code is returned.

The underlined number and item are the factory settings.

<Note>

After the settings of items No.200 through No.203 have been changed, the new settings will not take effect until the power is switched on. This means that the power must be turned off and back on again after these settings are changed.

MEMORY MODE menu

No.	Item	Setting		Description of settings
		No.	Superimposed display	
300	MEMORY MODE	0000 0001 0002 0003	OFF MEM STOP REPEAT 1 CONTINUE	This sets the memory operation. 0: No memory operation. 1: The tape stops near the BEGIN point when it is fast forwarded or rewound. 2: When the tape reaches the end, it is rewound to the BEGIN point where it stops. 3: When the tape reaches the end, it is rewound to the BEGIN point where it is played, and this process is repeated.
301	BGN/END PRESET			This sets the BEGIN point and END point.

The underlined number and item are the factory settings.

TAPE PROTECT menu

No.	Item	Setting		Description of settings
		No.	Superimposed display	
400	STILL TIMER	0000 0001 0002 0003 0004 0005	0.5S 5S 10S 30S 1MIN 2MIN	This selects the time taken until the unit is set to the tape protection mode when it has been left standing in the stop, play pause or still mode. (Units: S = seconds, MIN = minutes) • The setting for the time taken until the unit is set to the tape protection mode when it has been left standing in the REC PAUSE mode is fixed at 2 minutes.
401	SRC PROTECT	0000 0001	STEP HALF	This sets the tape protection operation which is performed when the unit has been left standing in the pause mode. 0: Step (step FWD in the still or pause mode; step REV in the REC pause mode) 1: Half loading (standby OFF)
402	DRUM STDBY	0000 0001	OFF ON	This sets whether or not the drum is to be stopped in the STANDBY OFF mode. 0: The drum rotates at all times. 1: The drum is stopped in the STANDBY OFF mode.
403	STOP PROTECT	0000 0001	STEP HALF	This sets the tape protection operation to be performed when the unit is left standing in the STOP mode. 0: Step 1: Half loading

The underlined number and item are the factory settings.

<Note>

When using a consumer DV cassette tape, tape protection mode is set after 10 seconds, even if STILL TIMER is set to "30S", "1MIN" or "2MIN".

TIME CODE menu

No.	Item	Setting		Description of settings
		No.	Superimposed display	
500	VITC POS-1	0000 0001 0006 0010	10L 11L 16L 20L	This sets the position where the VITC signal is to be inserted. (The same line as that selected for VITC POS-2 cannot be selected.)
501	VITC POS-2	0000 0001 0008 0010	10L 11L 18L 20L	This sets the position where the VITC signal is to be inserted. (The same line as that selected for VITC POS-1 cannot be selected.)
502	VITC BLANK	0000 0001	BLANK THRU	This sets whether the VITC signal is to be output. 0: VITC signal is not output. 1: VITC signal is output.
503	TCG REGEN	0000 0001 0002	TC UB	This selects the signal to be regenerated when the TCG is in the REGEN mode. (Item No. 507) 0: Both the time code and user's bit are regenerated. 1: Only the time code is regenerated. 2: Only the user's bit is regenerated.
504	BINARY GP	0000 0001 0002 0003 0004 0005 0006 0007	000 001 010 011 100 101 110 111	This sets the status for using the user's bit of the time code generated by the TCG. 0: NOT SPECIFIED (character set is not used) 1: ISO CHARACTER (8-bit character set complying with ISO646 and ISO2022 is used) 2: UNASSIGNED-1 (not defined) 3: UNASSIGNED-2 (not defined) 4: UNASSIGNED-3 (not defined) 5: PAGE/LINE (SMPT262M page/line multiplexing system) 6: UNASSIGNED-4 (not defined) 7: UNASSIGNED-5 (not defined)
505	TCG CF FLAG	0000 0001	OFF ON	This selects whether the CF flag of the TCG is to be set ON. 0: CF flag is set OFF. 1: CF flag is set ON.
506	DF MODE	0000 0001	DE NDF	This selects the drop frame or non-drop frame mode for CTL and TCG. 0: CTL and TCG are used in the drop frame mode. 1: CTL and TCG are used in the non-drop frame mode.
507	TC MODE	0000 0001 0002 0003	P-REC P-FREE L-REGEN E-VITC	This sets the TCG mode. 0: Internal TC PRESET is used in the REC RUN mode. 1: Internal TC PRESET is used in the FREE RUN mode. 2: Internal TC is used in the REGEN mode. 3: VITC of input video signals is used in the REGEN mode.
508	TC PRESET			This sets the time code generator value.
509	UB PRESET			This sets the user's bit value.

The underlined number and item are the factory settings.

VIDEO menu

No.	Item	Setting		Description of settings
		No.	Superimposed display	
600	VIDEO MODE	0000 0001	BW COLOR	For setting video signal recording and playback. 0: For using monochrome signals. 1: For using color signals. ● To use monochrome signals for recording and playback, set this item to the BW mode. To use normal color signals, set it to the COLOR mode. ● If color signals are recorded in the BW mode, the playback images will appear with abnormal colors.
601	V-MUTE SEL	0000 0001	N-MUTE LOW-RF	This selects whether the video signals are to be muted during playback under low RF conditions or when the servo lock is disengaged. 0: Video signals are not muted. 1: Video signals are muted.
602	CC (F1) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed capture signal in the first field. 0: Signal is forcibly blanked. 1: Signal is not blanked.
603	CC (F2) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed capture signal in the second field. 0: Signal is forcibly blanked. 1: Signal is not blanked.
604	STD/NSTD SEL	0000 0001	AUTO NSTD	This selects the video signal processing. 0: Mode is set automatically according to the input. 1: Mode is forcibly set to nonstandard mode.
605	FREEZE SEL	0000 0001	FIELD FRAME	This selects which type of freeze mode is to be established for the still picture during PLAY PAUSE or frame advance. 0: Field freeze 1: Frame freeze

The underlined number and item are the factory settings.

AUDIO menu

No.	Item	Setting		Description of settings
		No.	Superimposed display	
700	SEARCH CUE	0000 0001	OFF ON	This selects whether the cue audio signals are to be output during search or during forwarding/rewinding (VV). 0: Signals are not output. 1: Signals are output.
701	DV PB ATT	0000 0001	OFF ON	This selects the audio output level during DV format playback. 0: Normal playback level 1: Output level is controlled only during DV format playback.
702	PB MUTE	0000 0001	OFF ON	This selects whether the sound is to be muted during playback at the back-space assemble recording points. 0: Sound is not muted. 1: Sound is muted. However, it may not be possible to mute the sound at the edit OUT point.
703	AUDIO REC IN	0000 0001	CUT FADE	This selects the audio processing information at the back-space assemble recording points recorded on the tape. 0: Cut processing is selected 1: Fade processing is selected

The underlined number and item are the factory settings.

RS-232C Interface

The following functions can be controlled by using the RS-232C interface.

1. Basic operations

Eject
stop
play
rec/play
fast forward
rewind
pause

2. Status checks

The current VTR mode can be checked.

RS-232C Interface

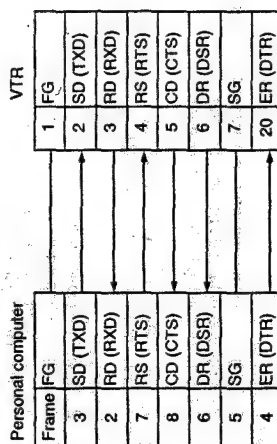
1. Hardware specifications

1) Interface specifications

Connector: D-SUB, 25P, DCE specifications (straight cable supported)

Pin No.	Signal	Description
1	FG	Protective ground
2	SD (TXD)	Transmitted data
3	RD (RXD)	Received data
4	RS (RTS)	Request to send
5	CD (CTS)	Clear to send
6	DR (DSR)	Data set ready
7	SG	Signal ground
20	ER (DTR)	Data terminal ready

Example of wiring connections



2) Communication parameters

The VTR's communication parameters are shown below. To change any of these parameters, make the changes using the menu.

Baud rate : 9600 bps
Bit length : 8 bits
Stop bit : 1 bit
Parity : None

2. Software specifications

1) External interface specifications

Communication system	Asynchronous, full duplex
Baud rate	1200/2400/4800/9600/19200
Bit length	8 bit/7 bit
Stop bit	1 bit/2 bit
Parity	NONE/ODD/EVEN

The factory settings are 9600 bps, 8 bits, 1 stop bit, and none for the parity.

2) Sending format (from personal computer to VTR)

■ Data format

[STX] [discrimination] [:] [data] [ETX]
02H XX XX XX 3AH XX...XX 03H

20H<XX<7FH (XX = hexadecimal character code)

- discrimination : This is the command identifier (3 bytes).
- : : This code serves as the delimiter between a command and data.
- data : Data codes are added when necessary.

1. A send command must always start with STX (character code 02H).
The 'discrimination' which follows next is the command identifier. If necessary, data is added after the colon (":").
At the very end comes ETX (character code 03H).

2. When STX is re-sent before ETX is sent, the receive buffer inside the VTR is cleared (all data received up to that moment will be lost), and the data is processed again with the re-received STX placed at the head.

3) Receiving format (from VTR to personal computer)

The VTR responds to a send command with data in the following format.

1. First, the VTR returns the data which acknowledges whether the command from the computer was received properly.

1) The VTR returns the ACK data if communication was error-free.

[ACK]
06H

2) It returns data starting with NAK (negative acknowledge; character code 15H) if an error occurred in communication.

[NAK]
15H

2. Next, after [ACK] is returned because communication was error-free, data is returned in the following format by the operation of the VTR.

1) The response data (return data) format when the command from the personal computer was received properly by the VTR is as follows.

[STX] [data] [ETX]
02H XX...XX 03H

Example: Send command Return data = Receive data

[STX] QOP [ETX] → [ACK] [STX] OEJ [ETX]
[STX] QCD [ETX] → [ACK] [STX] CD [ETX]

2) If the data is incorrect or the trouble has occurred in the VTR, details indicating the reason why the data could not be received are returned using the following format.

[STX] E R 0 0 [ETX]
02H 45H 52H 30H 30H XX 03H

• Meaning of []

- 1 (31H): Unknown command, or command execution error
- 2 (32H): Bad data code parameter error
- 3 (33H): Receiving buffer overflow error

[STX] E R 1 0 [ETX]
02H 45H 52H 31H 30H XX 03H

• Meaning of []

- 2 (32H): Front loading error
- 3 (33H): Loading error
- 4 (34H): Drum/capstan system error
- 5 (35H): Reel system error
- 6 (36H): Tension system error
- 7 (37H): Fan motor error
- 8 (38H): Dew error

[STX] E R 1 F [ETX]
02H 45H 52H 31H 46H 46H 03H
System (servo communications) error

4) Command list

■ Key commands

Send command	Description of operation	Data transmitted by personal computer	Data received in response from VTR
OSP (STOP)	All the VTR's operations are stopped, and the VTR is set to the stop mode.	[STX] OSP [ETX]	[STX] OSP [ETX]
OEJ (EJECT)	Cassette is ejected.	[STX] OEJ [ETX]	[STX] OEJ [ETX]
OPL (PLAY)	Playback is commenced.	[STX] OPL [ETX]	[STX] OPL [ETX]
ORW (REWIND)	The tape is rewound.	[STX] ORW [ETX]	[STX] ORW [ETX]
OFF (FAST FORWARD)	The tape is fast forwarded.	[STX] OFF [ETX]	[STX] OFF [ETX]
OPA (PAUSE)	This is the pause or pause release command. When the VTR is in the playback mode, it is set to the still-picture playback (STILL); when it is in the recording mode, it is set to the pause (REC PAUSE) mode. The VTR's previous mode is restored when this command is sent again.	[STX] OPA [ETX]	[STX] OPA [ETX]
ORC (REC)	Recording is commenced.	[STX] ORC [ETX]	[STX] ORC [ETX]
ORP (REC PAUSE)	The recording pause (REC/PAUSE) mode is established when the VTR is in the still-picture playback (STILL), playback or recording mode. When this command is sent again, the recording mode is established.	[STX] ORP [ETX]	[STX] ORP [ETX]
OAF (ADVANCE FIELD)	When the VTR is in the still-picture playback (STILL), the tape is advanced frame by frame in the forward direction.	[STX] OAF [ETX]	[STX] OAF [ETX]
OAR (ADVANCE REVERSE FIELD)	When the VTR is in the still-picture playback (STILL), the tape is advanced frame by frame in the reverse direction.	[STX] OAR [ETX]	[STX] OAR [ETX]

■ Status command

Send command	Description of operation	Data transmitted by personal computer	Data received in response from VTR
QOP (OPERATION MODE)	This command inquires as to the operation mode of the VTR. The VTR returns one of the following codes in response to the QOP command.	[STX] QOP [ETX]	[STX] [] [ETX]
		VTR operation mode	Code
		STOP	OSP
		EJECT	OEJ
		FF	OFF
		REW	ORW
		PLAY	OPL
		STILL	OPP
		RECORD	ORC
		REC PAUSE	ORP

ERROR MESSAGES

When trouble has occurred in the VTR, one of the following messages appears on the tape counter.

- The VTR stops operating when any of the error numbers except E-00 and E-01 is displayed.

Error No.	Description of error
— d —	Condensation has formed.
E—00	This appears when the servo has been disengaged for 3 seconds during normal playback.
E—01	This appears when dropouts have been detected for two or more seconds during normal playback.
E—11	The reel base which operates in accordance with the size of the tape has been locked for more than 2.5 seconds.
E—21	The cassette has not moved down even when 4 seconds have elapsed since it was inserted. Alternatively, the cassette is not ejected even when 4 seconds have elapsed since the EJECT button was pressed.
E—31	The loading operation was not completed within 4 seconds.
E—32	The unloading operation was not completed within 4 seconds.
E—41	The FG (rotational speed) signal has not been output from the cylinder motor.
E—42	The PG (phase) signal has not been output from the cylinder motor.
E—43	The rotational speed of the cylinder motor is abnormally high.
E—44	The rotational speed of the cylinder motor is abnormally low.
E—51	The FG (rotational speed) signal has not been output from the capstan motor.
E—52	The rotational speed of the capstan motor is abnormally high.
E—53	The rotational speed of the capstan motor is abnormally low.
E—61	The supply reel motor has locked up.
E—62	The take-up reel motor has locked up.
E—63	The rotational speed of the supply reel motor is abnormally high.
E—64	The rotational speed of the take-up reel motor is abnormally high.
E—65	A tension error has been detected.
E—66	The start or end processing operation has not been completed even though 7 or more seconds have passed.
E—67	Communication error between SERVO and AVSYS. There is an error in the data.
E—68	Communication error between SERVO and AVSYS. The data has been fixed at high or low.
E—69	An error occurred in communication between SERVO and AVSYS when the power was turned on.
E—70	The fan motor stopped operating.
E—80	Trouble has occurred in the supply voltage.

■ Counter sense command

Send command	Description of operation	Data transmitted by personal computer	Data received in response from VTR
QCD (COUNTER SENSE)	This command inquires as to the current value of the counter. The CTL counter value or TCR value is returned. The counter keys on the front panel or the menu is used to select the CTL counter and TCR values.	[STX] QCD [ETX]	[STX] CDFS [ETX] [STX] CDFS [ETX] Counter value For a CTL counter value [STX] CDFS [ETX] Sign Hours Minutes Seconds Frames — sign (20H) + Blank (20H) For a TCR value [STX] CDFS [ETX] Hours Minutes Seconds Frames

■ Standby OFF commands

Send command	Description of operation	Data transmitted by personal computer	Data received in response from VTR
OBF (STANDBY OFF)	This command sets the VTR to the standby OFF mode. It is received when the VTR is in the stop mode.	[STX] OBF [ETX]	[STX] OBF [ETX]
OBN (STANDBY ON)	This command sets the VTR to the standby ON mode. This operation is recognized when the VTR is in the standby OFF mode.	[STX] OBN [ETX]	[STX] OBN [ETX]

■ Deck ID command

Send command	Description of operation	Data transmitted by personal computer	Data received in response from VTR
QID (DECK IN SENSE)	This command inquires as to the TV system accommodated by the VTR.	[STX] QID [ETX]	[STX] [ETX] [STX] [ETX] AJ-D230 : NTSC system AJ-D230E : PAL system

Video Head Cleaning

This VTR comes with an auto head cleaning function which automatically reduces the amount of dirt on the heads. However, to ensure the highest reliability, we recommend that you clean the video heads every day.
Use the cleaning fluid designated by Panasonic.

Checking the hour meter

- 1** Set the VTR to the remote mode.
(Set the LOCAL/MENU/REMOTE switch to the REMOTE position.)
- 2** When the RESET button on the front panel is pressed, the cumulative numbers of hours during which the drum and capstan have been used are indicated alternately on the counter display for as long as the button is held down.



Condensation

The principle according to which condensation forms is the same as that which causes droplets of water (condensation) to form on the window panes of a heated room when it is cold outside. Condensation forms on the VTR or its tape when it is moved to a location with a considerably different temperature and humidity. More specifically, it forms when the VTR or tape is:

- Brought into a very steamy and humid location or into a room where the heating was just turned on.
 - Brought suddenly from an air-conditioned room to a very hot and humid location.
- In such cases, do not turn the power on straight away but leave the unit standing for about 10 minutes. When condensation has formed in the unit, an error message lights up in the counter display section, and the cassette tape is automatically ejected. Keep the power on and wait until the error message is cleared.

Maintenance

Before performing any maintenance work, set the power switch to the OFF position and disconnect the power cable from the AC outlet making sure that you take hold of the molded part of the power plug.
Use a soft cloth to clean the cabinet. In order to get rid of stubborn dirt, dilute some neutral kitchen detergent with water, dip a cloth into the solution, wring it out well, and wipe away the dirt. Then wipe off any moisture which remains using a dry cloth.
Do not use paint thinners or benzine for cleaning purposes.

SECTION 2

SERVICE INFORMATION

CONTENTS

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2-1. Maintenance

2-1-1. Maintenance Parts Chart

	Name	Part Number	Using Hours (unit hours)					
			2,000	4,000	6,000	8,000	10,000	12,000
	Tape Path Cleaning		△ Clean the Tape Path at each 500 hours					
	Fan Motor	VRF0197	Replace the Fan Motor at each 10,000 hours <i>Operation Time.</i>					
	Mech. Chassis Unit	VXY1241Z1						●
1	Cylinder Unit	VEG1337	●	●	●	●	●	
2	Pinch Arm Unit	VXL2684		● ■		● ■		
3	Cleaning Arm Unit	VXL2748	●	●	●	●	●	
4	S Reel Motor A Unit	VEM0635			●			
5	T Reel Motor A Unit	VEM0636			●			
6	Thrust Screw Unit	VXQ0556			● ▲			

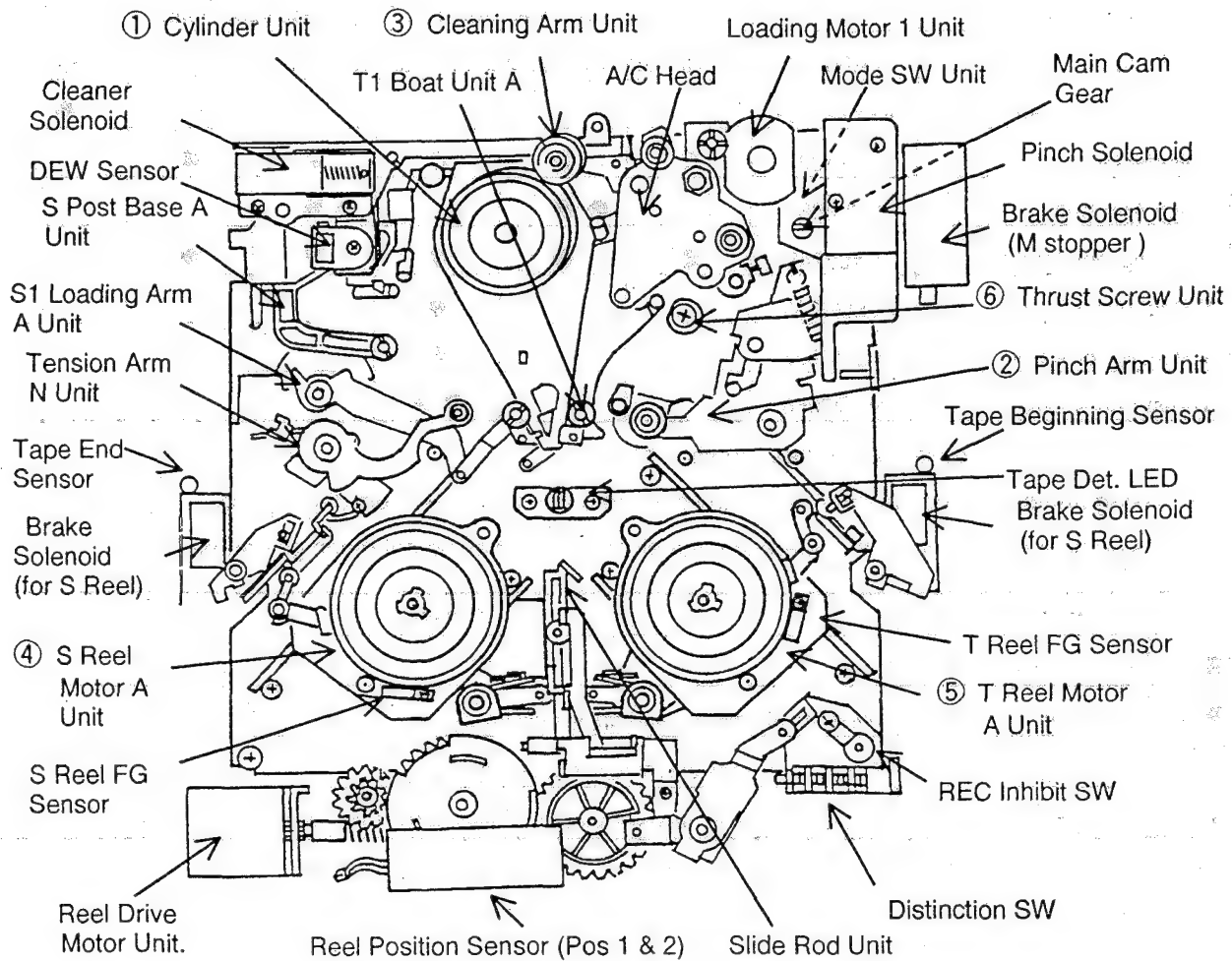
Note: Using Hours are based on the head rotation hours.

Using hours are recommendation. It may depend on temperature, humidity or dusty.

Using hours are listed as the reference of maintenance. They do not mean guarantee hours.

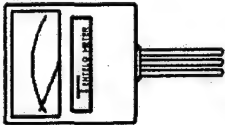
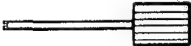
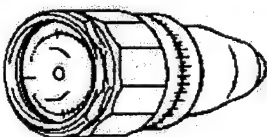

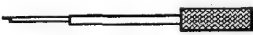

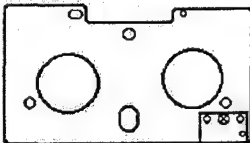
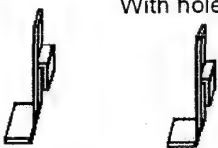

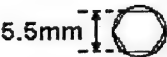


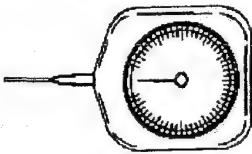

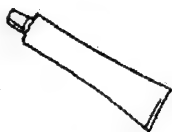
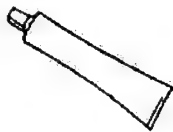



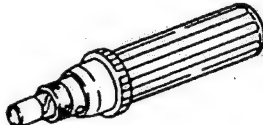
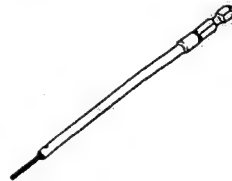
Symbol	Maintenance	Remark
●	Replacement	
■	Greasing	Wipe the old grease and apply new grease.
△	Cleaning	This mark means cleaning is necessary.
▲	Lubrication	The lubrication is necessary when replacing the Pinch Arm Unit

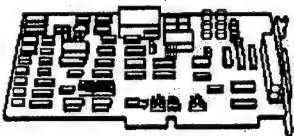
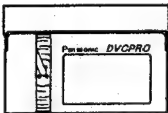
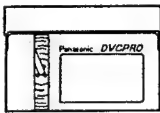
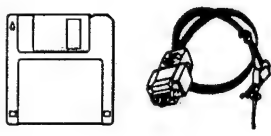
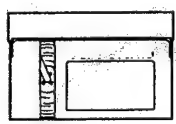
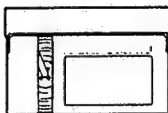
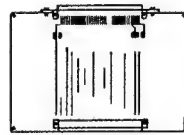

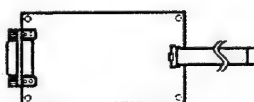
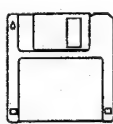
2-1-2. Sensors Layout



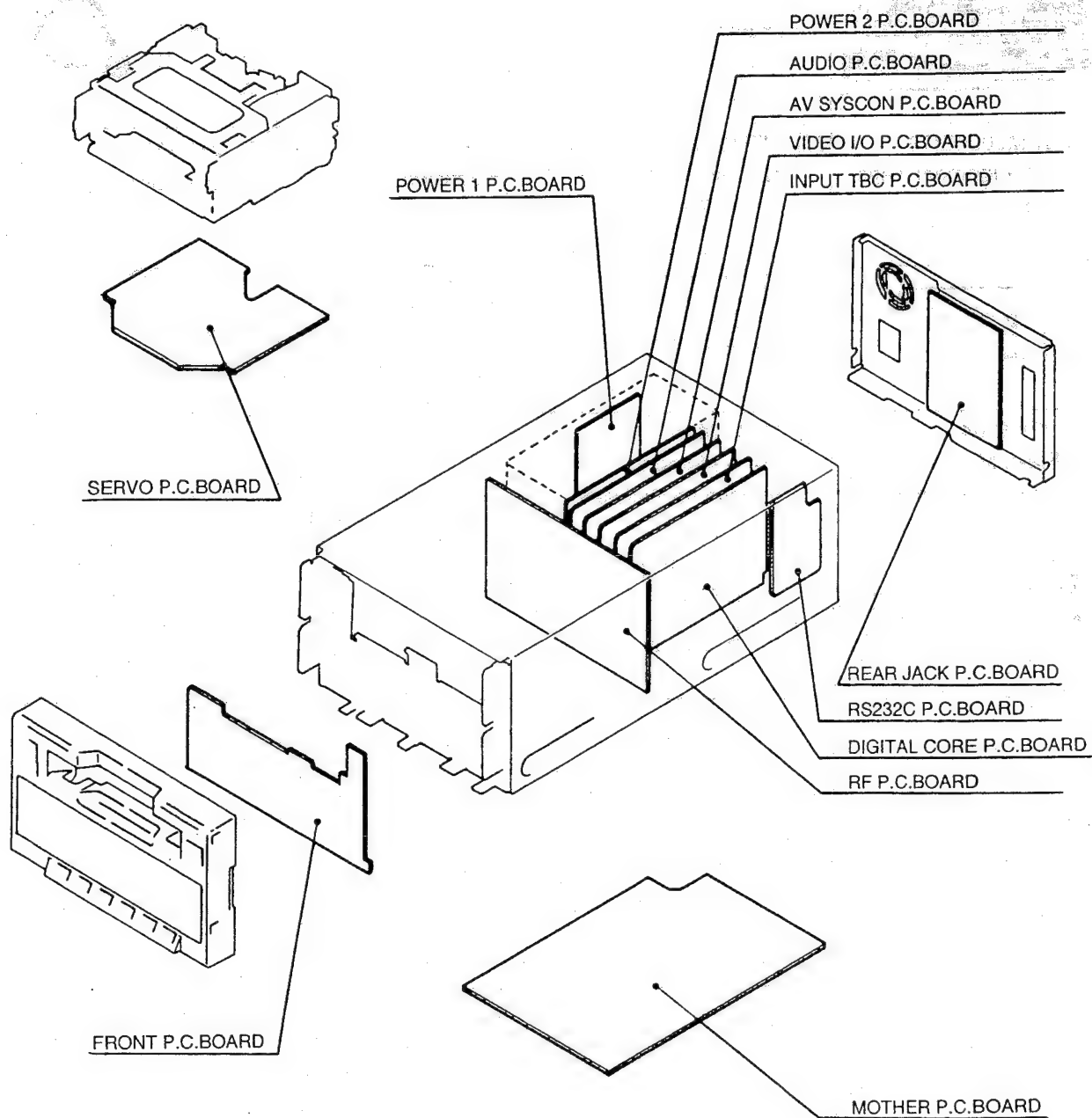
2-2. Servicing Fixtures & Tools

Fig	ITEM	PART NO.	JIG & EQUIPMENT	REMARKS
1	JIG TOOL	VFK1145	Back Tension Meter (T2-M30-P)	
2		VFK1149	Post Driver	
3		VFK71	Dial Torque Gauge (150g)	
4		VFK1191	Dial Torque Gauge (45g)	
5		VFK1152	Dial Torque Gauge Adaptor	
6		VFK0357	Eccentric Screwdriver (1.5)	
7		VFK1154	Post Height Fixture	
8		VFK1153	Mech. Neutral Plate (Post)	
9		VFK0906	Oil	
10		VFK1155	Neutral Position Tool (Gold)	
11		VFK1156	Neutral Position Tool (Black)	
12		VFK1208	Neutral Position Tool (Black with Hole)	
13		VFK1150	Nut Driver (5.5mm)	
14		VFK1151	Nut Driver (2.5mm)	
15		VFK1188	Dial Tension Gauge (30g)	
16		VFK0948	Check Light	
17		VFK0749	Froiral Grease (for plastic)	
18		MOR265	Morlytone Grease (for metal)	
19		VFK1146	Philips Driver (Fine) (00-75)	
20		VFK1147	Philips Driver (Fine) (0-100)	
21		VFK1148	Hex. Driver (1.5)	
22		VFK1178	Hex. Driver (0.89)	
23		VFK1179	Hex. Driver (0.71)	
24		VFK1190	Hex. Wrench	
25		VFK1209	Torque Driver (0.4 - 3kg)	
26		VFK0912	Post Axis Driver (1.5mm)	or VFK1375
27		VFK1300	A/D Board (DAQ-12 Quatech)	Purchase Locally
28		VFM3580KM	Alignment Tape (No.1)	for NTSC
29		VFM3581KM	Alignment Tape (No.2)	for NTSC
30		VFM3582KM	Alignment Tape (No.3)	for NTSC
31		AJ-CL12MP	Cleaning Tape	SALES
32		VFK1159	LISTA Software	
33		VFK1186	LISTA Cable	
34		VFM3000EDS	Alignment Tape (DV LISTA)	
35		VFM3010EDS	Alignment Tape (DV Color Bar)	for NTSC
36		VFK1357	Extention Board	
37		VFK1358	Extension Cable	
38		VFK1304	Flash Memory Version up Tool	
39		VFK1248A	Flash Memory Version Up Software	

<p>1 VFK1145 Back Tension Meter</p>  <p>Model: T2-M30-P</p>	<p>2 VFK1149 Post Driver</p> 	<p>3 VFK71 (150g) 4 VFK1191(45g) Dial Torque Gauge</p> 	<p>5 VFK1152 Dial Torque Gauge Adapter</p> 
<p>6 VFK0357(φ 1.5) Eccentric Screwdriver</p> 	<p>7 VFK1154 Post Height Fixture</p> 	<p>8 VFK1153 Mech Neutral Plate(Post)</p> 	<p>9 VFK0906 OIL (for Thrust Adjustment screw)</p>
<p>10 VFK1155 (REV, Gold) 11 VFK1156 (PLAY, Black) 12 VFK1208(Neutral, Black With hole)</p>  <p>(Gold) (Black)</p>	<p>13 VFK1150 Nut Driver(5.5mm)</p>   <p>5.5mm</p>	<p>14 VFK1151 Nut Driver(2.5mm)</p>   <p>2.5mm</p>	<p>15 VFK1188(30g) Dial Tension Gauge</p> 
<p>16 VFK0948A(or purchase locally) Check Light</p> 	<p>17 VFK0749 Froiral Grease(White) (for plastic part)</p> 	<p>18 MOR265 Morlytone Grease(Black) (for metal part)</p> 	<p>19 VFK1146 (00 x 75) 20 VFK1147 (0 x 100) Philips Driver</p> 
<p>21 VFK1148(1.5mm) 22 VFK1178(0.89mm) 23 VFK1179(0.71mm) Hex. Driver</p> 	<p>24 VFK1190 (1.5mm) Hex. Wrench</p> 	<p>25 VFK1209 Torque Driver(0.4-3Kg)</p> 	<p>26 VFK0912 or VFK1375 Post Axis Driver(1.5mm)</p> 

<p>27 VFK1300 A/D Converter Board (For Quatech. DAQ-12 Purchase Locally)</p> 	<p>28 VFM3580KM 29 VFM3581KM 30 VFM3582KM DVC PRO Alignment Tape</p> 	<p>31 AJ-CL12MP Cleaning Tape</p> 	<p>32 VFK1159 LISTA Software 33 VFK1186 LISTA Cable</p> 
<p>34 VFM3000EDS DV Alignment Tape° (LISTA)</p> 	<p>35 VFM3010EDS DV Alignment Tape (Color Bar)</p> 	<p>36 VFK1357 Extension Board</p> 	<p>37 VFK1358 Extension Cable</p> 
<p>38 VFK1304 Flash Memory Version up Tool</p> 	<p>39 VFK1248A Flash Memory Version up Software</p> 		

2-3. Boards Location



2-4. Alignment Tapes

DVCPRO Alignment Tape

for NTSC

VFM3580KM (NTSC)

Time (min)	Video		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar SMPTE(75%)	Composite Video Level Confirmation	1kHz -20dB	Audio Level Confirmation	1kHz 0VU	CUE Level Confirmation
7:00	Color Bar Full Field(75%)	Component Video Level Confirmation				
14:00	H Sweep	Frequency Response			6kHz 0VU	A/C Head Azimuth
18:00	Bowtie(500k)	Y/C Timing			1kHz 300Hz~6kHz	Frequency Response
22:00	Pulse&Bar	Y/C Timing				
26:00	Area Markers					
30:00						

VFM3581KM (NTSC)

Time(min)	Signal
0:00~20:00	ITI Pattern

VFM3582KM (NTSC)

Time(min)	Signal
0:00~10:00	X Value

for PAL

VFM3680KM (PAL)

Time (min)	Video		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar 100%	Video Level Confirmation	1kHz -18dBu	Audio Level Confirmation	1kHz Reference level	CUE Level Confirmation
10:00	H Sweep	Frequency Response			6kHz Reference level	A/C Head Azimuth
14:00	Area Markers					
18:00	Bowtie(500k)	Y/C Timing			1kHz 300Hz~6kHz	Frequency Response
22:00	Pulse & Bar	Y/C Timing				
26:00	Multi Pulse	Y/C Timing				
30:00						

VFM3681KM (PAL)

Time (min)	Signal
0:00 ~ 20:00	ITI Pattern

VFM3682KM (PAL)

Time (min)	Signal
0:00 ~ 10:00	X Value

2-5. Recommended Test And Service Equipment

NTSC

Part No.	Name	Remark
TSG130A(OP.04)	Analog Component Signal Generator	TEKTRONIX
2467B	400MHz Oscilloscope	TEKTRONIX
1760(OP.SC) or 1780R	SCH Meter	TEKTRONIX
520A	Vector Scope	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
	Audio Analyzer	

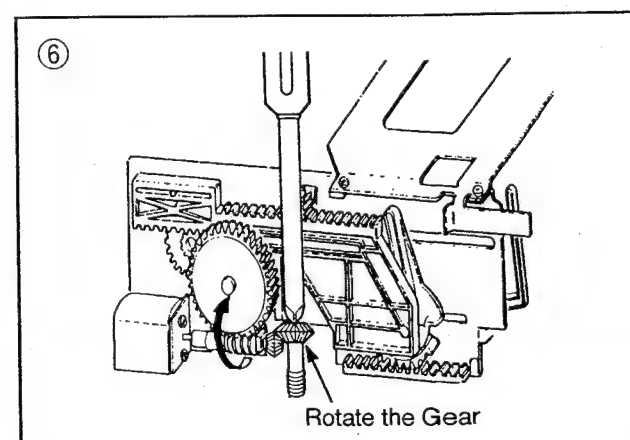
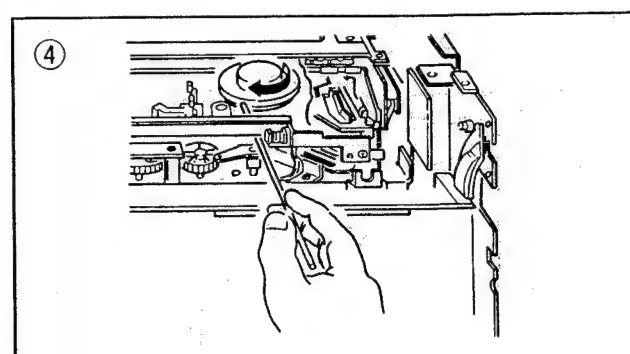
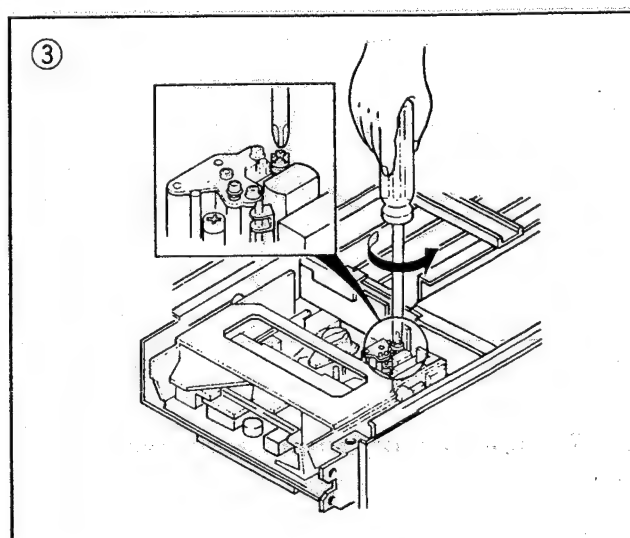
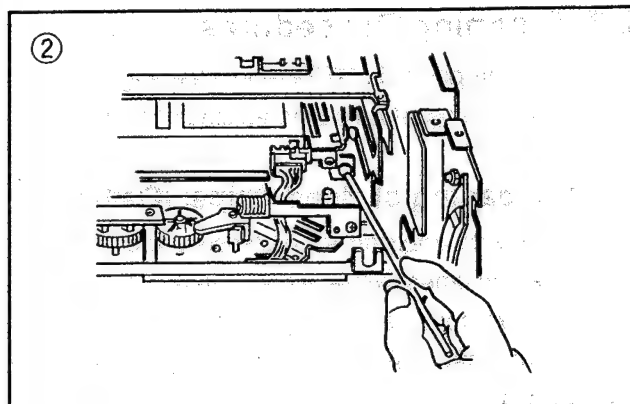
PAL

Part No.	Name	Remark
TSG131A(OP.04)	Analog Component Signal Generator	TEKTRONIX
2467B	400MHz Oscilloscope	TEKTRONIX
1751(OP.SC) or 1781R	SCH Meter	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
	Audio Analyzer	

2-6. Manual Tape Eject

When a tape cannot be ejected, because of Power failure or mechanical tape damage, remove the tape manually.

1. Turns power off and remove the top panel and front panel.
2. Release the T Reel brake by pressing the iron core of the T Reel Brake Solenoid.
This is done by a thin stick from the VTR front.
3. Rotate the red plastic screw by a Phillips-head screwdriver to counterclockwise pushing the screw. It needs to rotate about 30 times rotation until starting to move.
4. When the post is unloaded, the tape loosens, so take-up reel must be wound the tape to protect tape loosen.
- The tape wind method is ; inserting a wood stick (non magnetized) between the cassette and mechanism chassis from the front and rotate the T Reel to the tape wind direction.
5. Repeat item 3 and 4 until the tape in wound completely inside of the cassette.
6. When the tape is completely inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a Phillips-head screwdriver pushing the screw and remove the cassette. Take care so that the cassette cover dose not bite the tape when the cover is closed.

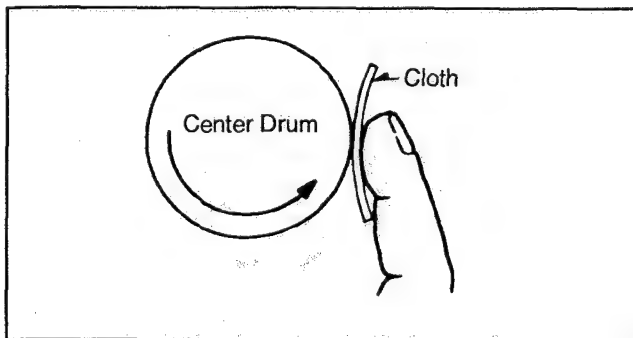


2-7. Cleaning Procedures

Make sure the power is OFF before cleaning. Use ethanol (more than 99% purity) as cleaning liquid.

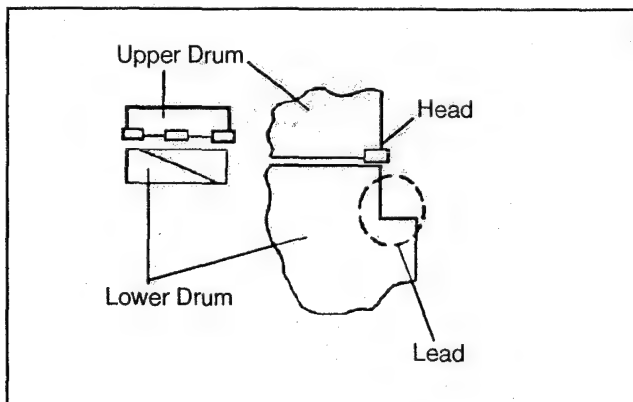
2-7-1. Cleaning of Head Chips: (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



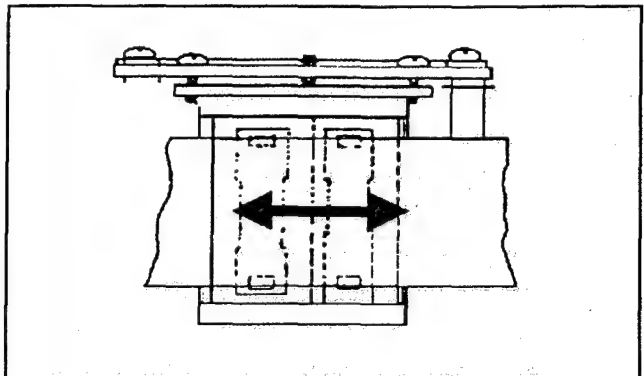
2-7-2. Cleaning of Drum Lead: (Weekly)

Be careful not to touch a head chip. Clean the drum lead with a pick.



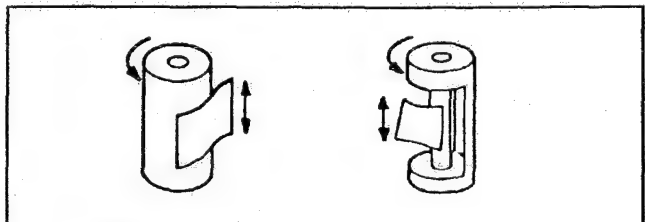
2-7-3. Cleaning of A/C Head: (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



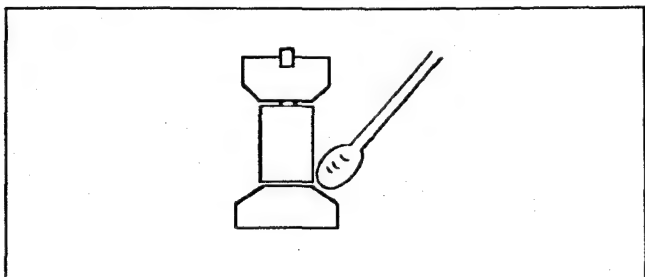
2-7-4. Cleaning of Pinch Roller and Capstan: (Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



2-7-5. Cleaning of Post: (Weekly)

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



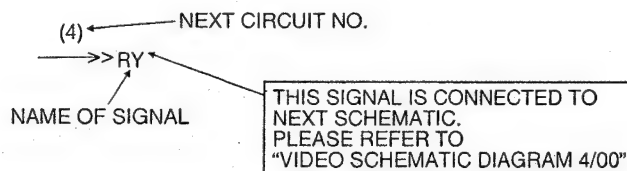
SECTION 3

SCHEMATIC DIAGRAMS

Note:


1. Do not use the part number shown on the schematic diagram or P.C. Board layout for ordering.
The correct part number for ordering is shown in the Exploded Views/Parts List section.
2. Unless otherwise specified, all resistors are in OHMS,
K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ F.

NOTE


(Example)

* PAT: PART is not installed.

CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

MOTHER.....	SCM001	SERVO (MECH IF).....	SCM025
MOTHER.....	SCM002	SERVO (BRAKE & PINCH).....	SCM026
MOTHER.....	SCM003	SERVO (LOADING)	SCM027
MOTHER.....	SCM004	VIDEO I/O 1394 (CONNECTOR).....	SCM028
AVSYSCON	SCM005	VIDEO I/O 1394 (Y C SEP).....	SCM029
AVSYSCON (ROM).....	SCM006	VIDEO I/O 1394 (DECODER)	SCM030
AVSYSCON (PIO).....	SCM007	VIDEO I/O 1394 (C DEC).....	SCM031
AVSYSCON (ANALOG IF & NVRAM)	SCM008	VIDEO I/O 1394 (C F DET)	SCM032
AVSYSCON (SOL LOGIC).....	SCM009	VIDEO I/O 1394 (BUFF OSC).....	SCM033
AVSYSCON (BUS IF)	SCM010	VIDEO I/O 1394 (V OUT)	SCM034
AVSYSCON (MOTHER CONNECT).....	SCM011	VIDEO I/O 1394 (OSD)	SCM035
AVSYSCON JIG IF)	SCM012	VIDEO I/O 1394	SCM036
AVSYSCON (IF MICOM)	SCM013	VIDEO I/O 1394 (FCLP).....	SCM037
AVSYSCON (DUAL PORT RAM)	SCM014	DIGITAL CORE (SHUFFLE)	SCM038
SERVO (REEL SERVO MICON)	SCM015	DIGITAL CORE (COMP, AUDIO)	SCM039
SERVO (SERVO MICOM-C & ATF)	SCM016	DIGITAL CORE (ECC)	SCM040
SERVO (CAP & CYL FG AMP).....	SCM017	DIGITAL CORE (DCI)	SCM041
SERVO (REEL SERVO DRIVE)	SCM018	DIGITAL CORE (VDEO DATA).....	SCM042
SERVO (CAP & CYL DRIVE).....	SCM019	DIGITAL CORE (PIO)	SCM043
SERVO (REEL SERVO SW POWER)	SCM020	DIGITAL CORE (VIDEO SBC)	SCM044
SERVO (CTL AMP).....	SCM021	DIGITAL CORE (VIDEO LOCK).....	SCM045
SERVO (FRAME CTL)	SCM022	DIGITAL CORE (TAPE CTRL).....	SCM046
SERVO (REEL SERVO FG AMP).....	SCM023	DIGITAL CORE (I/F)	SCM047
SERVO (SERVO CONNECTOR).....	SCM024		

SECTION 4

CIRCUIT BOARDS

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VIDEO I/O (VEP03E54B) P.C. BOARD	PCB-3
AV SYSCON (VEP06C83A) P.C. BOARD	PCB-5
DIGITAL CORE (VEP03D94C) P.C. BOARD.....	PCB-7
DIGITAL SUB (VEP00Z87A) P.C. BOARD	PCB-8
MOTHER (VEP00Z78A) P.C. BOARD.....	PCB-9

IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.

WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE

DO NOT USE THE PARTS NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PARTS NUMBER IS SHOWN IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

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Service Menu Information

< How to Operate >

1. Remove the Top Cover.
2. Connect the Monitor video output to TV monitor
3. Set the SW 2 of SW60901 on the AV SYS C.B.A. to ON side or Connect a jumper wire between TP902 and TG907 on the AV SYS C.B.A..
4. Turn the LCOAL/MENU/REMOTE switch to MENU position on the Front panel.
5. Exit the menu, turn the LOCAL/MENU/REMOTE switch to LOCAL or REMOTE position.

MAIN Menu

SERVICE - MENU		No. A00
*	A00	SERVO ADJUST
	B00	MODE SELECT
	C00	REC ADJUST
	D00	PB ADJUST
	E00	EQ ADJUST

6. Move the star mark "*" by [UP](FF) or [DOWN](STOP) button and select the item on the Main menu.
7. Press the [SET](REC) button, then open the Adjustment Menu follow the selected item (A00 to E00) on the Main menu.

Note: The contents of each Adjustment menu, which are described on behind page.

- Press the [MODE](REW) button on the Adjustment menu condition, then escape from Adjustment menu mode.

< Key function for the Service Menu >

- [SET (REC)]
 - ① Move to each Adjustment Menu (A00 to E00) from Main Menu.
 - ② Default select (see below).
 - ③ [END] + this key = REC mode in service menu.
- [MODE (REW)]
 - ① Move to Main Menu from each Adjustment Menu.
 - ② [END] + this key = REW mode in service menu.
- [UP (FF)]
 - ① Move the cursor " * " for select the each items.
 - ② [END] + this key = FF mode in service menu.
- [DOWN (STOP)]
 - ① Move the cursor " * " for select the each items.
 - ② [END] + this key = STOP mode in service menu.
- [DATA + (PAUSE)]
 - ① Increase adjustment value
 - ② [END] + this key = PAUSE mode in service menu.
- [DATA - (PLAY)]
 - ① Decrease adjustment value
 - ② [END] + this key = PLAY mode in service menu.
- [BEGIN]
 - ① Auto servo adjustment.
- [END]
 - ① Normal VTR function key with above other keys.
- [EJECT]
 - ① Normal Eject function.
- [AUDIO OUTPUT SELECT]
 - ① Error display select on Audio Meter.
(push this key change Video error to Audio error)
CH1 LED light on: Video Error indicate.
CH2 LED light on: Audio Error indicate.
 - ② [END] + this key = Audio level display.

7-3. POWER

7-3-1. D5.9V Adj.

BOARD	POWER 2
SPEC.	5.9 ± 0.05 V
TP	TP1001
ADJ.	VR1001
INPUT	-
MODE	-
TAPE	-
M. EQ	D.V.M

7-4. SERVO

7-4-1. S Reel Torque Offset Adj.

BOARD	SERVO
SPEC.	0 ± 5 mV
TP	TP5906 (RF), TP5908 (GND)
ADJ.	A02 : S OFFSET
INPUT	-
MODE	EJECT
TAPE	-
M. EQ	D.V.M

1. Open the Service Menu and select "A00 : SERVO ADJUST" \Rightarrow "A02 : S OFFSET".
2. Press [DATA+] or [DATA-] so that DC voltage become in specification.
3. Press [MODE], back to Main Menu .

7-4-2. T Reel Torque Offset Adj.

BOARD	SERVO
SPEC.	0 ± 5 mV
TP	TP5907 (RF), TP5908 (GND)
ADJ.	A01 : T OFFSET
INPUT	-
MODE	EJECT
TAPE	-
M. EQ	D.V.M

1. Open the Service Menu and select "A00 : SERVO ADJUST" \Rightarrow "A01 : T OFFSET".
2. Press [DATA+] or [DATA-] so that DC voltage become in specification.
3. Press [MODE], back to Main Menu.

7-4-3. S Reel Motor Torque Offset Adj.

BOARD	SERVO
SPEC.	15±0.5 g (5 times average)
TP	-
ADJ.	A04 : S TRQUE
INPUT	-
MODE	STOP
TAPE	-
M. EQ	Dial Torque Gauge

1. Open the Service Menu and select "A00 : SERVO ADJUST" ⇒ "A04 : S TRQUE".
2. Set the Dial Torque Gauge on the S Reel table.
3. Press [BEGIN], unit place in loading mode.
4. Measure torque 5 times and calculate average, then adjust it becomes in specification by press [DATA+] or [DATA-] during loading mode.
5. Press [BEGIN] and [MODE] back to Main Menu.

7-4-4. T Reel motor Torque Offset Adj.

BOARD	SERVO
SPEC.	15±2 g (5 times average)
TP	-
ADJ.	A03 : T TRQUE
INPUT	-
MODE	STOP
TAPE	-
M. EQ	Dial Torque Gauge

1. Open the Service Menu and select "A00 : SERVO ADJUST" ⇒ "A03: T TRQUE".
2. Set the Dial Torque Gauge on the S Reel table.
3. Press [BEGIN], unit place in loading completion.
4. Measure torque 5 times and calculate average, then adjust it becomes in specification by press [DATA+] or [DATA-] during loading mode.
5. Press [BEGIN] and [MODE] back to Main Menu.

7-4-5. Tension Sensor Offset Adj. (1)

BOARD	SERVO
SPEC.	2.5±0.1V
TP	TP5901 (RF)
ADJ.	A05 : TENSION OFST
INPUT	-
MODE	EJECT
TAPE	-
M. EQ	D.V.M

1. Open the Service Menu and select "A00 : SERVO ADJUST" ⇒ "A05 : TENSION OFST".
2. Press [DATA+] or [DATA-] so that DC voltage become in specification.
3. Press [MODE], back to Main Menu.

7-4-6. Tension Sensor Offset Adj. (2)

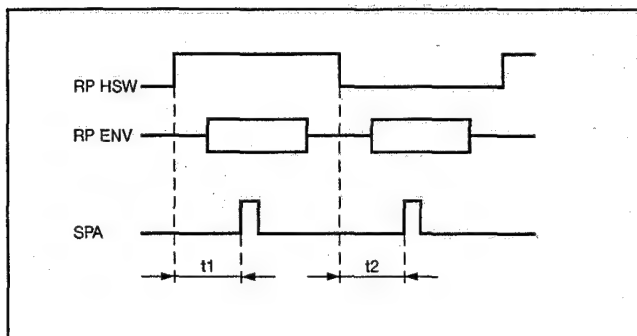
BOARD	SERVO
SPEC.	Neutral: 2.5±0.1V PLAY: 3.8±0.05V
TP	TP5901 (RF)
ADJ.	VR9501 (MOTHER)
INPUT	-
MODE	EJECT
TAPE	-
M. EQ	D.V.M

1. Open the Service Menu and select "A00 : SERVO ADJUST" ⇒ "A05 : TENSION OFST".
2. Set the Neutral Position Tool (VFK1208) on S Post Base and press [BEGIN].
3. Measure voltage in neutral mode, if it not in specification then adjust position of the Tension Sensor Unit.
4. Remove VFK1208 and set Neutral Position Tool (VFK1156) then press [BEGIN].
5. Adjust VR9501 (it located right rear side on the Mother board) so that voltage become in PLAY mode specification.
6. Press [BEGIN] and [MODE], back to Main Menu.

7-4-7. PG Shifter Adj.

BOARD	SERVO
SPEC.	126.4±2us
TP	TP5759: RP HSW TP5251: PRE EQ OUT TP5905 : SPA (RF)
ADJ.	A06 : PG SFTR RISE A07 : PG SFTR FALL
INPUT	-
MODE	PLAY
TAPE	VFK3580KM (Color Bar)
M. EQ	Oscilloscope

1. Open the Service Menu and select "A00 : SERVO ADJUST" ⇒ "A06 : PG SFTR RISE".
2. Insert the alignment tape and press [END]+[PLAY], unit place in Play mode.
3. After light up the SERVO indicator, keep press [BEGIN] until right side numerical value of service menu "A06: PG SFTR RISE" once changes to 0000 and next changes to new numerical value.
4. Press [UP] and select "A07: PG SFTR FALL".
5. Keep press [BEGIN] until right side numerical value of service menu "A07: PG SFTR FALL" once changes to 0000 and next changes to new numerical value.
6. Confirm t1 and t2 value in above specification.
7. Press [BEGIN] and [MODE], back to Main Menu.

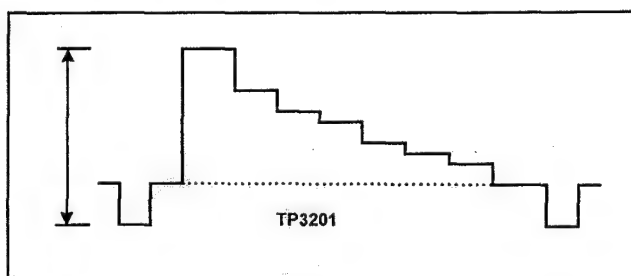


7-5. VIDEO I/O

7-5-1. DEC Y Level Adj.

BOARD	VIDEO I/O
SPEC.	1000±50mV
TP	TP3201
ADJ.	VR3203
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	Oscilloscope

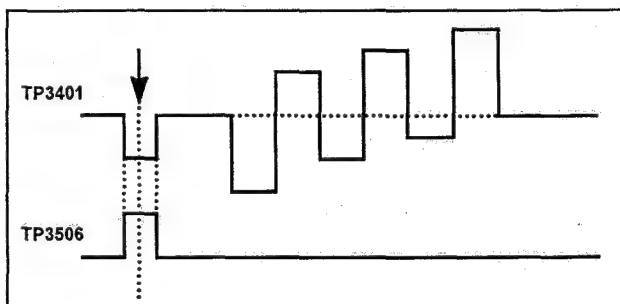
1. Adjust VR3203 so that Video level becomes in specification.



7-5-2. RSTW Adj.

BOARD	VIDEO I/O
SPEC.	0±100nsec
TP	TP3506: PB BLK DC TP3401: BGP
ADJ.	VR3501
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	Oscilloscope

1. Adjust VR3501 so that Burst position at TP3401 becomes same phase which center of PB blanking pulse at TP3506.



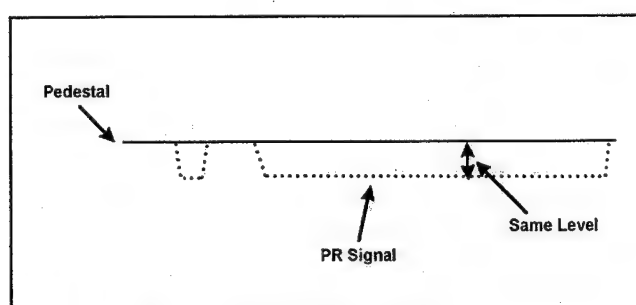
7-5-3. Chrominance Demod AXIS Adj.

BOARD	VIDEO I/O
SPEC.	PR = Pedestal level
TP	TP3402
ADJ.	VR3504
INPUT	MOD RAMP
MODE	EE
TAPE	-
M. EQ	Oscilloscope

1. Adjust VR3504 so that signal component of PR becomes same level of pedestal.

Note: Oscilloscope range: 20mV

Trigger: A21 on extension board



7-5-4. SCH Detection Adj.

BOARD	VIDEO I/O
SPEC.	as follow
TP	TP3505
ADJ.	VR3502: SCH VR3503: SCH P
INPUT	SCH $\pm 70^\circ$
MODE	EE
TAPE	-
M. EQ	SCH Meter

1. Set SCH signal generator to -70° .
2. Turn VR3502 to CCW direction slowly and adjust TP3505 becomes H to L.
3. Change SCH signal generator to $+70^\circ$.
4. Turn VR3503 to CCW direction slowly and adjust TP3502 becomes H to L.

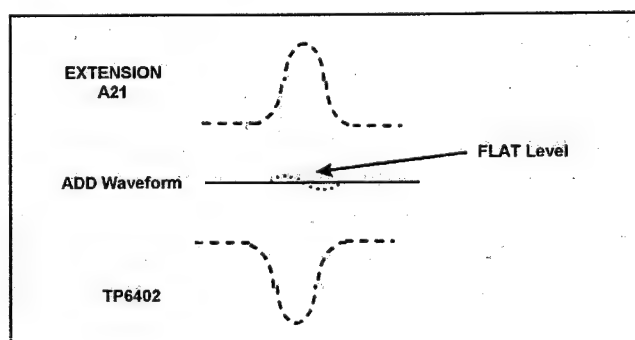
(Using AJ-LT75)

1. Supply Video out signal of AJ-LT75 to AJ-D230.
2. Open SYSTEM ADJUST MENU of AJ-LT75 and adjust SCH to -70° or $+70^\circ$.

7-5-5. AD Y PR Timing Adj.

BOARD	VIDEO I/O
SPEC.	$0 \pm 10\text{nsec}$
TP	TP3402: AD PR A21 (Extension): AD Y
ADJ.	VR3402
INPUT	Pulse & Bar
MODE	EE
TAPE	-
M. EQ	Oscilloscope

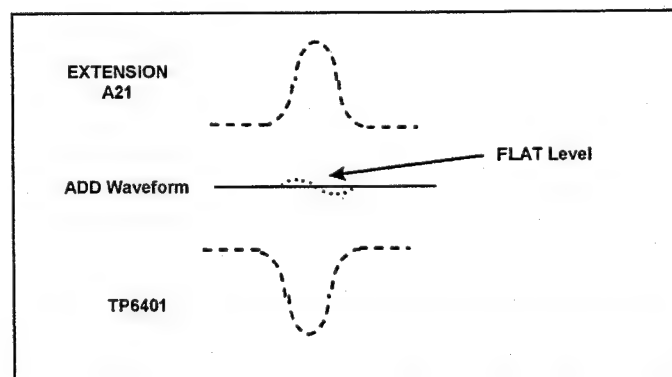
1. Set oscilloscope CH2 Invert mode (TP3402), CH1/CH2 ADD mode.
2. Adjust VR3402 so that ADD signal becomes flat.



7-5-6. AD Y PB Timing Adj.

BOARD	VIDEO I/O
SPEC.	$0 \pm 10\text{nsec}$
TP	TP3401: AD PB A21 (Extension): AD Y
ADJ.	VR3401
INPUT	Pulse & Bar
MODE	EE
TAPE	-
M. EQ	Oscilloscope

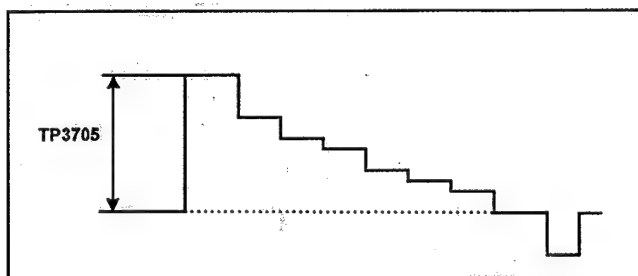
1. Set oscilloscope CH2 Invert mode (TP3401), CH1/CH2 ADD mode.
2. Adjust VR3401 so that ADD signal becomes flat.



7-5-7. DA Y Level Adj.

BOARD	VIDEO I/O
SPEC.	$700 \pm 10\text{mV}$
TP	TP3705
ADJ.	VR3702
INPUT	-
MODE	PLAY
TAPE	VFK3580KM (Color bar)
M. EQ	Oscilloscope

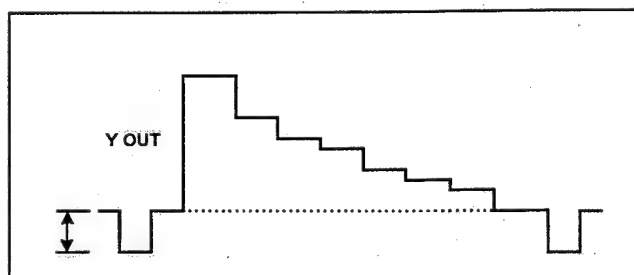
1. Adjust VR3702 so that Y level becomes in above specification.



7-5-9. Y Out Level Adj. (2)

BOARD	VIDEO I/O
SPEC.	$40\text{IRE} \pm 1\%$
TP	S-VIDEO (Y out)
ADJ.	VR3701
INPUT	-
MODE	PLAY
TAPE	VFK3580KM (Color bar)
M. EQ	WFM

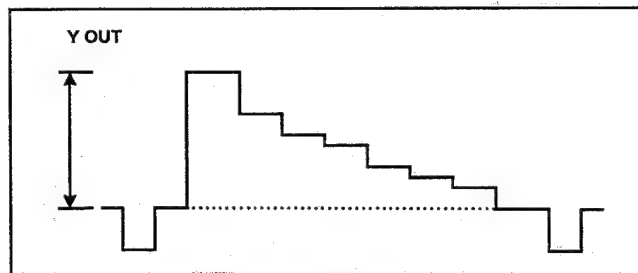
1. Adjust VR3701 so that SYNC level becomes 40IRE.



7-5-8. Y Out Level Adj. (1)

BOARD	VIDEO I/O
SPEC.	$100\text{IRE} \pm 1\%$
TP	S-VIDEO (Y Out)
ADJ.	VR3705
INPUT	-
MODE	PLAY
TAPE	VFM3580KM (Color bar)
M. EQ	WFM

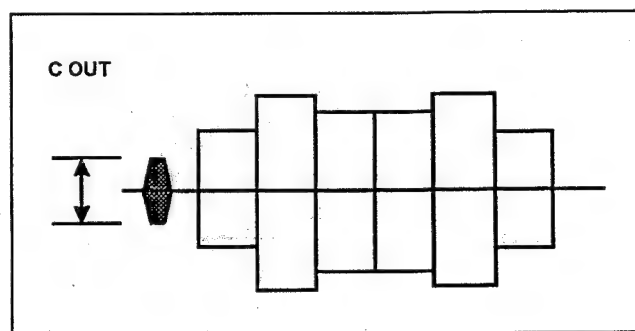
1. Adjust VR3705 so that Y level becomes 100IRE.



7-5-10. DA C Level Adj.

BOARD	VIDEO I/O
SPEC.	$300 \pm 10\text{mV}$
TP	TP3704
ADJ.	VR3703
INPUT	-
MODE	PLAY
TAPE	VFM3580KM (Color bar)
M. EQ	Oscilloscope

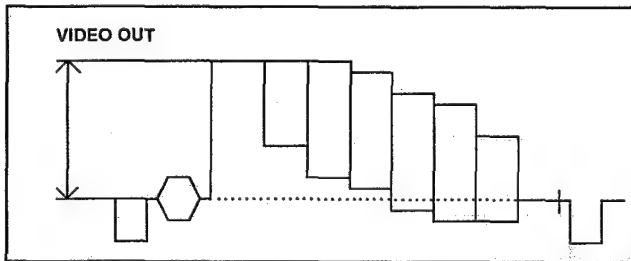
1. Adjust VR3703 so that Burst level becomes in above specification.



7-5-11. Composite Video Level Adj.

BOARD	VIDEO I/O
SPEC.	100IRE \pm 1%
TP	VIDEO Out
ADJ.	VR3706
INPUT	-
MODE	PLAY
TAPE	VFM3580KM (Color bar)
M. EQ	WFM

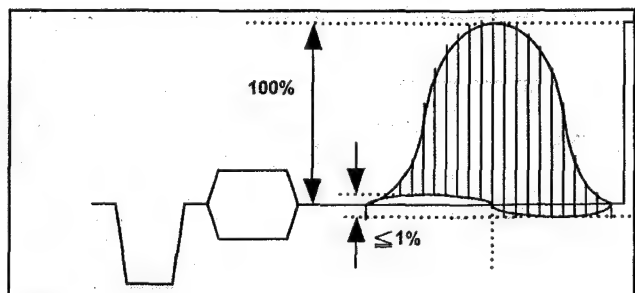
1. Adjust VR3706 so that Y level becomes 100IRE.



7-5-13. Composite Y/C Timing Adj.

BOARD	VIDEO I/O
SPEC.	0 \pm 10ns
TP	VIDEO Out
ADJ.	VR3704
INPUT	-
MODE	PLAY
TAPE	VFM3580KM (Pulse & Bar)
M. EQ	WFM

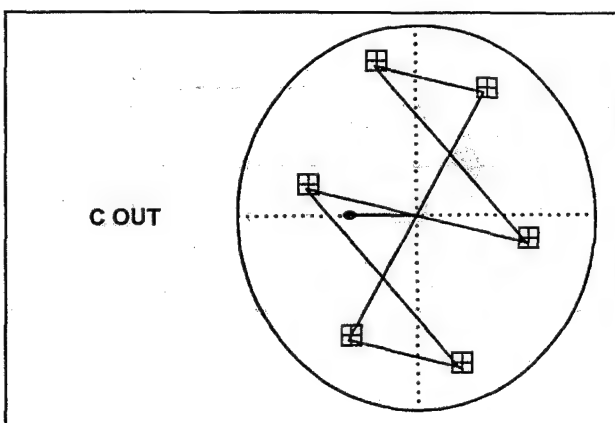
1. Adjust VR3704 so that hatching position becomes symmetric.



7-5-12. Chroma Level Adj.

BOARD	VIDEO I/O
SPEC.	75% Burst Level
TP	S-VIDEO (C out)
ADJ.	VR3707
INPUT	-
MODE	PLAY
TAPE	VFM3580KM (Color bar)
M. EQ	Vector Scope

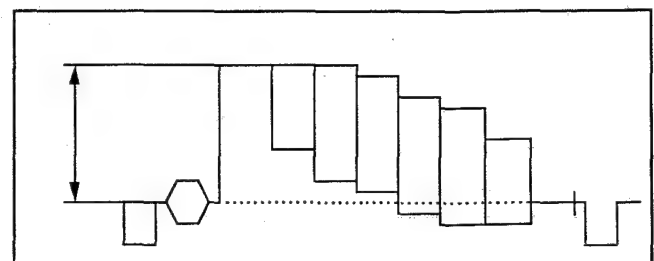
1. Adjust VR3707 so that Burst level becomes 75% position in Scope.



7-5-14. Component EE Y Level Adj.

BOARD	VIDEO I/O
SPEC.	100 \pm 1IRE
TP	VIDEO Out
ADJ.	VR3709
INPUT	75% Color Bar (S-VIDEO)
MODE	EE
TAPE	-
M. EQ	WFM

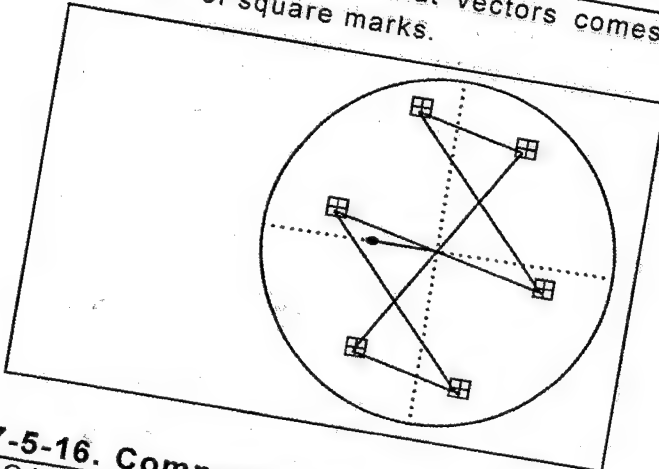
1. Adjust VR3709 so that Y level becomes 100IRE.



7-5-15. Component EE C Level Adj.

BOARD	VIDEO I/O
SPEC.	Center of square mark
TP	VIDEO Out
ADJ.	VR3710
INPUT	75% Color Bar (S-VIDEO)
MODE	EE
TAPE	-
M. EQ	Vector Scope

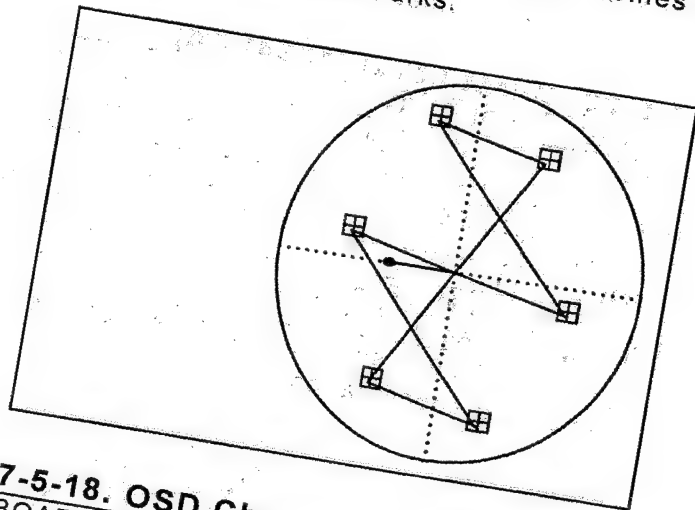
1. Adjust VR3710 so that vectors comes in center of square marks.



7-5-17. Composite EE C Level Adj.

BOARD	VIDEO I/O
SPEC.	Center of square mark
TP	VIDEO Out
ADJ.	VR3202
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	Vector Scope

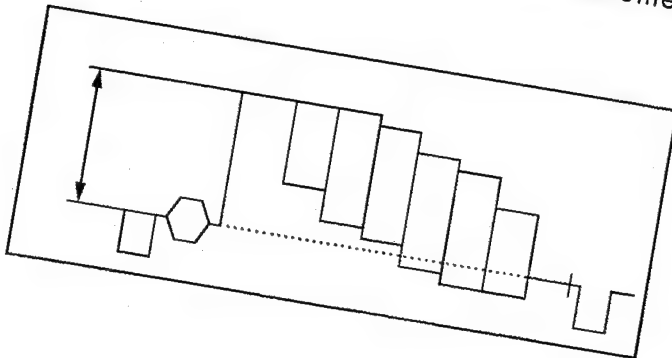
1. Adjust VR3202 so that vectors comes in center of square marks.



7-5-16. Composite EE Y Level Adj.

BOARD	VIDEO I/O
SPEC.	100±1IRE
TP	VIDEO Out
ADJ.	VR3203
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	WFM

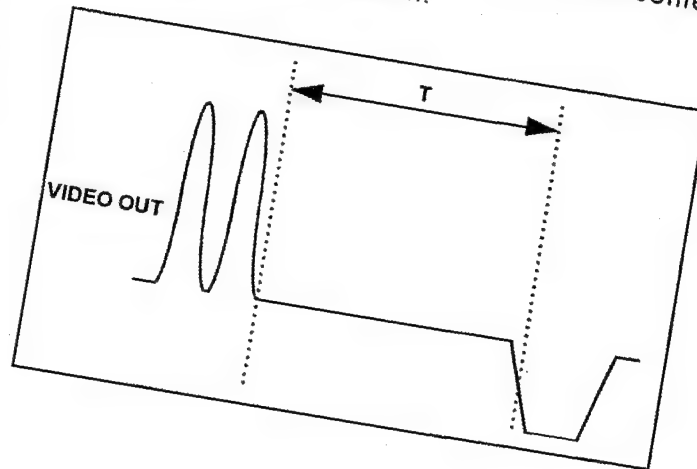
1. Adjust VR3203 so that Y level becomes 100IRE.



7-5-18. OSD Character Position Adj.

BOARD	VIDEO I/O
SPEC.	6±0,5us
TP	A29 (Extension)
ADJ.	VC3801
INPUT	Color Bar
MODE	EE
TAPE	-
M. EQ	Oscilloscope

1. Adjust VC3801 so that T between Sync edge and end of character signal becomes in above specification.



7-5-19. Encoder SC FREQ Adj.

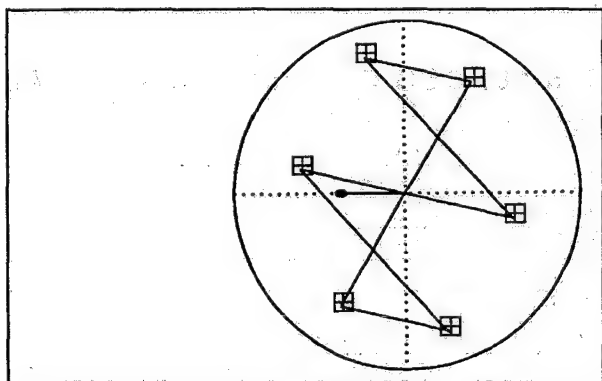
BOARD	VIDEO I/O
SPEC.	3579545 \pm 10Hz
TP	TP3509
ADJ.	VR3505
INPUT	-
MODE	PLAY
TAPE	VFM3580KM (Color Bar)
M. EQ	FREQ Counter

1. Adjust VR3505 so that Sub-carrier frequency becomes in above specification.

7-5-20. Burst Level (1394) Adj.

BOARD	VIDEO I/O
SPEC.	Burst = 75%
TP	VIDEO Out
ADJ.	VR3903
INPUT	-
MODE	PLAY
TAPE	VFM3580KM
M. EQ	Vector Scope

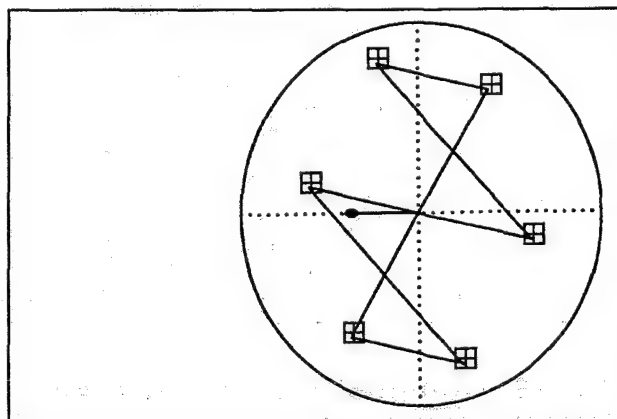
1. Adjust VR3903 so that burst level becomes in above specification.



7-5-21. C Level (1394) Adj.

BOARD	VIDEO I/O
SPEC.	Center of square marker
TP	VIDEO Out
ADJ.	VR3904 (PB) VR3902 (PR)
INPUT	-
MODE	PLAY
TAPE	VFM3580KM
M. EQ	Vector Scope

2. Adjust VR3901 and VR3902 so that vectors comes in center of square maker.



7-6. INPUT TBC

7-6-1. W13.5M PLL Offset Adj.

BOARD	INPUT TBC
SPEC.	$0 \pm 0.1V$
TP	TP3302
ADJ.	FL3303
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	Oscilloscope

1. Adjust FL3303 so that DC level becomes in above specification.

7-6-2. Read 13.5M PLL Offset Adj.

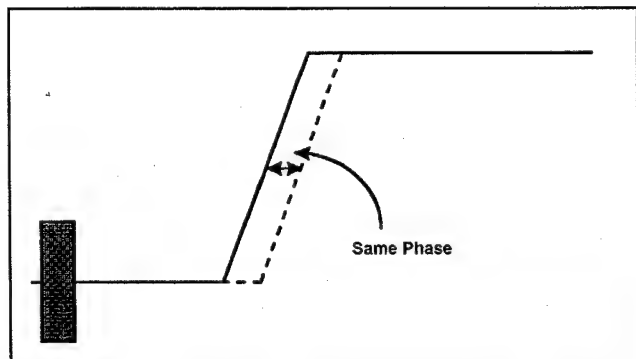
BOARD	INPUT TBC
SPEC.	$0 \pm 0.1V$
TP	TP3601
ADJ.	VC3601
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	Oscilloscope

1. Adjust VC3601 so that DC level becomes in above specification.

7-6-3. Y Signal Timing Adj.

BOARD	INPUT TBC
SPEC.	$0 \pm 40ns$
TP	VIDEO Out
ADJ.	VR3302
INPUT	Color Bar
MODE	EE
TAPE	-
M. EQ	WFM

1. Open the Service Menu and select "B00 : MODE SELECT" → "B12 : SHUFFLE EE" and set to ON mode.
2. Adjust VR3302 so that rising edge of Color bar signal becomes same phase.



7-6-4. PR/PB Signal Balance Adj.

BOARD	INPUT TBC
SPEC.	Less than 4mVp-p
TP	VIDEO Out
ADJ.	VR324: PR CLAMP DC VR3206: PB CLAMP DC
INPUT	Flat Field 50%
MODE	EE
TAPE	-
M. EQ	WFM

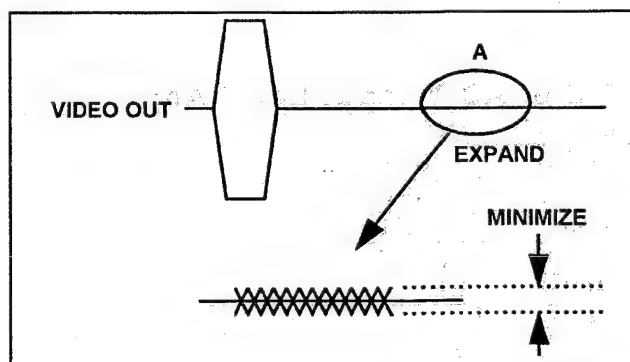
This adjustment should be performed after warm-up more than 15 minutes.

1. Open the Service Menu and select "B00 : MODE SELECT" → "B12 : SHUFFLE EE" and set to ON mode

WFM Set:

- Single Line Sweep
- Chroma Filter ON
- MAG Mode

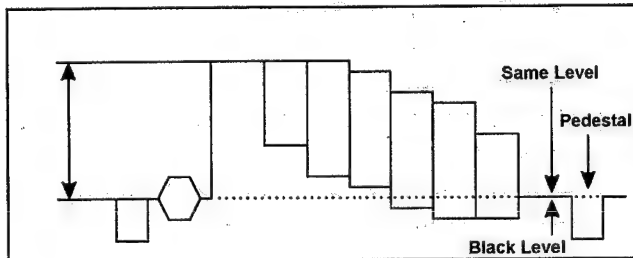
2. Connect short jumper between TP3601 and TG3601.
3. Adjust VR3204 and VR3206 multiple so that level becomes minimum.



7-6-5. AD Y CLAMP LEVEL Adj.

BOARD	INPUT TBC
SPEC.	Set-up level = Pedestal level \pm 1IRE
TP	VIDEO Out
ADJ.	VR3202
INPUT	Color Bar (set up 0%)
MODE	EE
TAPE	-
M. EQ	WFM

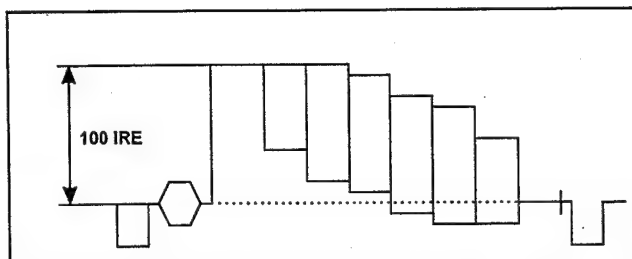
1. Open the Service Menu and select "B00 : MODE SELECT" → "B12 : SHUFFLE EE" and set to ON mode.
2. Connect short jumper between TP3601 and TG3601.
3. Adjust VR3202 so that set-up level becomes pedestal level as equal.



7-6-6. AD Y Input Level Adj.

BOARD	INPUT TBC
SPEC.	100 \pm 1IRE
TP	VIDEO Out
ADJ.	VR3201
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	WFM

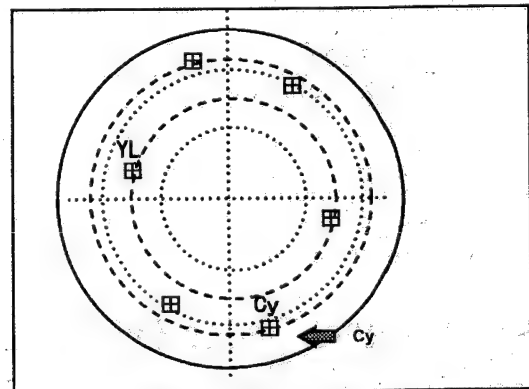
1. Open the Service Menu and select "B00 : MODE SELECT" → "B12 : SHUFFLE EE" and set to ON mode.
2. Connect short jumper between TP3601 and TG3601.
3. Adjust VR3201 so that Y level becomes in above specification.



7-6-7. AD PR Level Adj.

BOARD	INPUT TBC
SPEC.	\pm 0.5%
TP	VIDEO Out
ADJ.	VR3203
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	Vector Scope

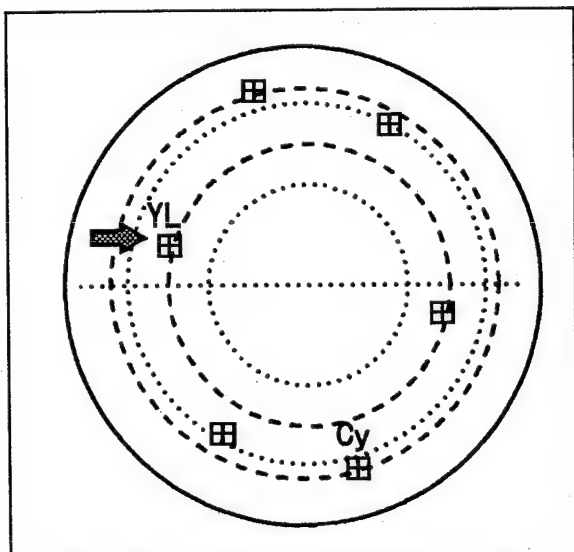
1. Open the Service Menu and select "B00 : MODE SELECT" → "B12 : SHUFFLE EE" and set to ON mode.
2. Connect short jumper between TP3601 and TG3601.
3. Adjust VR3203 so that out side level becomes in square mark of Cyan.



7-6-8. AD PB Level Adj.

BOARD	INPUT TBC
SPEC.	$\pm 0.5\%$
TP	VIDEO Out
ADJ.	VR3205
INPUT	75% Color Bar
MODE	EE
TAPE	-
M. EQ	Vector Scope

1. Open the Service Menu and select "B00 : MODE SELECT" → "B12 : SHUFFLE EE" and set to ON mode.
2. Connect short jumper between TP3601 and TG3601.
3. Adjust VR3205 so that inside level becomes in square mark of Yellow.



7-6-9. P13.5M PLL Offset Adj.

BOARD	INPUT TBC
SPEC.	13.5MHz \pm 10Hz
TP	A48 (Extension)
ADJ.	VR3801
INPUT	75% Color Bar
MODE	PLAY
TAPE	
M. EQ	Frequency Counter

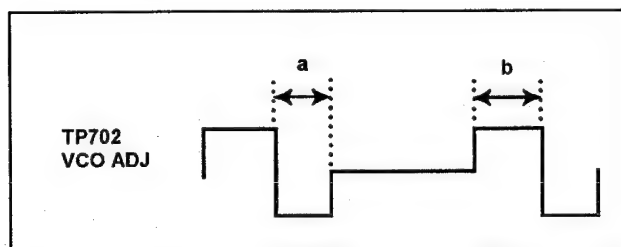
1. Connect short jumper between TP3801 and TP3802.
2. Adjust VR3801 so that frequency becomes in above specification.

7-7. DIGITAL CORE

7-7-1. Audio VCO Center Freq. 48K Adj.

BOARD	DIGITAL CORE
SPEC.	$48.0 \pm 0.01\text{KHz}$
TP	TP104, TP702
ADJ.	VR102
INPUT	-
MODE	EJECT
TAPE	-
M. EQ	Frequency counter Oscilloscope

1. Confirm frequency at TP104 in above specification.
2. Confirm $a = b$ at TP702 as below figure, if not adjust VR102 so that a and b becomes 20.8usec.



7-7-3. Audio VCO Center Freq. 44.1K Adj.

BOARD	DIGITAL CORE
SPEC.	$44.1 \pm 0.01\text{KHz}$
TP	TP104
ADJ.	VR103
INPUT	-
MODE	EJECT
TAPE	-
M. EQ	Frequency Counter

1. Open the Service Menu and select "B00 : MODE SELECT" → "B11 : AD VCO TEST" and select 44/TST mode.
2. Adjust VR103 so that frequency becomes in above specification.

7-7-2. Audio VCO Center Freq. 32K Adj.

BOARD	DIGITAL CORE
SPEC.	$32.0 \pm 0.01\text{KHz}$
TP	TP104
ADJ.	VR101
INPUT	-
MODE	EJECT
TAPE	-
M. EQ	Frequency Counter

1. Open the Service Menu and select "B00 : MODE SELECT" → "B11 : AD VCO TEST" and select 32/TST mode.
2. Adjust VR101 so that frequency becomes in above specification.

7-8. RF

7-8-1. EQ Adj.

BOARD	RF
SPEC.	Error indication is minimum
TP	-
ADJ.	E02: AUTEQ TARGET E03: DELAY OFFSET E04: COMP LEVEL E05: CLOCK PHASE
INPUT	75% Color Bar
MODE	PLAY
TAPE	VFK3580KM (Color Bar)
M. EQ	BER Counter, TV Monitor

1. Connect BER Counter to DIGITAL CORE C.B.A.
VFK1228 (BER Counter Cable)
White Clip: TP201 (SBE)
Blue Clip: TP701 (CLK18)
Black Clip: TG1 (GND)
Red Clip: TP301 (HID)
2. Open the Service Menu and select "B00: MODE SELECT", press [SET] and confirm mode setting as below.
B01: REC DATA SEL
NORMAL
B02: ECC ALL ON
B03: VITERBI OFF
B04: CONCEL ON
B05: PB HEAD PB
B06: TRACKING ATF
B07: MANUAL TRACK 0
3. Back to the Service Menu and select "E00: EQ ADJUST".
4. Insert the alignment tape (color bar position) and press [END]+[PALY] in place to playback mode.
5. Select "E04: COMP LEVEL" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
6. Select "E05: CLOCK PHASE" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
7. Repeat above step 3 and 4 again.

8. Select "E02: AUTEQ TARGET" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
9. Select "E03: DELAY OFFSET" and adjust this item so that error indication of Audio level meter and BER Counter Display becomes minimum by [DATA+] or [DATA-] buttons.
10. Press [MODE] button to exit.

7-8-2. PB EQ Adj.

BOARD	RF
SPEC.	Error indication is minimum
TP	TP252, TP757
ADJ.	D12: PB MAG L D16: PB MAG R D11: PB PHASE L D15: PB PHASE R D13: PB A L D14: PB B L D17: PB A R D18: PB B R
INPUT	75% Color Bar
MODE	PLAY
TAPE	VFM3580KM (Color Bar)
M. EQ	Oscilloscope, TV Monitor

1. Connect BER Counter to DIGITAL CORE C.B.A.

VFK1228 (BER Counter Cable)

White Clip: TP201 (SBE)

Blue Clip: TP701 (CLK18)

Black Clip: TG1 (GND)

Red Clip: TP301 (HID)

2. Open the Service Menu and select "B00: MODE SELECT", press [SET] and confirm mode setting as below.

B01: REC DATA SEL
NORMAL

B02: ECC ALL ON

B03: VITERBI OFF

B04: CONCEL ON

B05: PB HEAD PB

B06: TRACKING ATF

B07: MANUAL TRACK 0

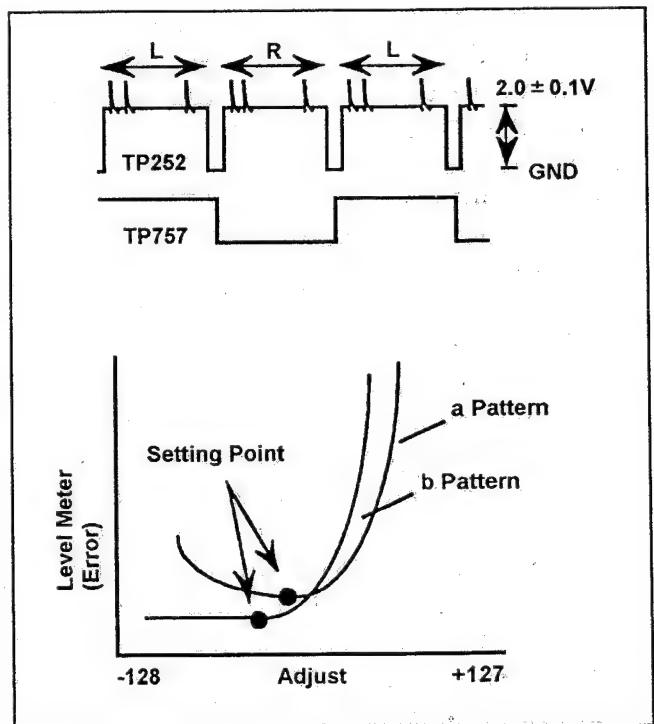
3. Back to the Service Menu and select "D00: PB ADJUST".

4. Select "D12: PB MAG L" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.

5. Select "D16: PB MAG R" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.

6. Select "D11: PB PHASE L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

7. Select "D15: PB PHASE R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
8. Select "D13: PB A L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
9. Select "D14: PB B L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
10. Select "D17: PB A R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
11. Select "D18: PB B R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
12. Press [MODE] button to exit.



7-8-3. R/P Head EQ Adj.

BOARD	RF
SPEC.	Error indication is minimum
TP	TP252, TP759
ADJ.	D02: RP MAG L D06: RP MAG R D01: RP PHASE L D05: RP PHASE R D03: RP A L D04: RP B L D07: RP A R D08: RP B R
INPUT	75% Color Bar
MODE	PLAY
TAPE	VFM3580KM
M. EQ	Oscilloscope, TV Monitor

1. Connect BER Counter to DIGITAL CORE C.B.A.

VFK1228 (BER Counter Cable)

White Clip: TP201 (SBE)

Blue Clip: TP701 (CLK18)

Black Clip: TG1 (GND)

Red Clip: TP301 (HID)

2. Open the Service Menu and select "B00: MODE SELECT", press [SET] and confirm mode setting as below.

B01: REC DATA SEL
NORMAL

B02: ECC ALL ON

B03: VITERBI OFF

B04: CONCEL ON

B05: PB HEAD PB

B06: TRACKING ATF

B07: MANUAL TRACK 0

3. Back to the Service Menu and select "D00: PB ADJUST".

4. Select "D02: RP MAG L" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.

5. Select "D06: RP MAG R" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.

6. Select "D01: RP PHASE L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

7. Select "D05: RP PHASE R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

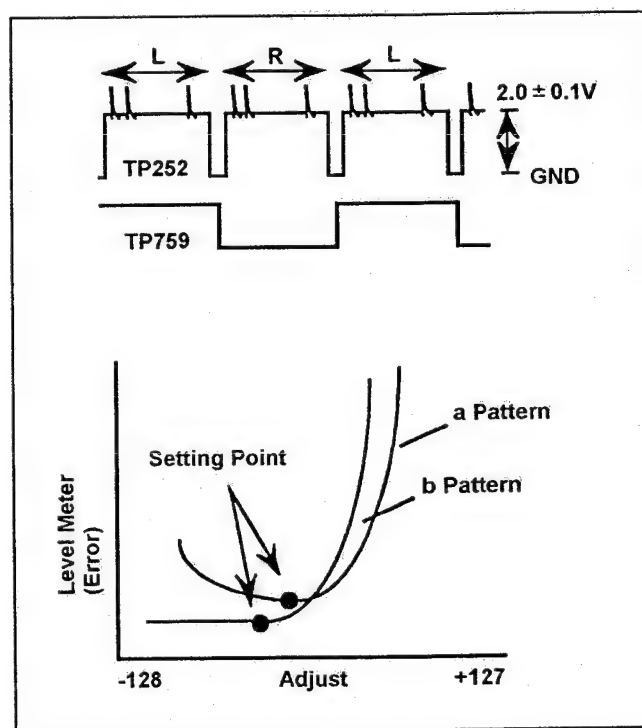
8. Select "D03: RP A L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

9. Select "D04: RP B L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

10. Select "D07: RP A R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

11. Select "D08: RP B R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

12. Press [MODE] button to exit.



7-8-4. DV Tape EQ Adj.

BOARD	RF
SPEC.	Error indication is minimum
TP	TP252, TP759
ADJ.	D22: DV MAG L D26: DV MAG R D21: DV PHASE L D25: DV PHASE R D23: DV A L D24: DV B L D27: DV A R D28: DV B R
INPUT	75% Color Bar
MODE	PLAY
TAPE	VFM3010EDS
M. EQ	Oscilloscope, TV Monitor

1. Connect BER Counter to DIGITAL CORE C.B.A.

VFK1228 (BER Counter Cable)

White Clip: TP201 (SBE)

Blue Clip: TP701 (CLK18)

Black Clip: TG1 (GND)

Red Clip: TP301 (HID)

2. Open the Service Menu and select "B00: MODE SELECT", press [SET] and confirm mode setting as below.

B01: REC DATA SEL

NORMAL

B02: ECC

ALL ON

B03: VITERBI

OFF

B04: CONCEL

ON

B05: PB HEAD

PB

B06: TRACKING

ATF

B07: MANUAL TRACK

0

3. Back to the Service Menu and select "D00: PB ADJUST".

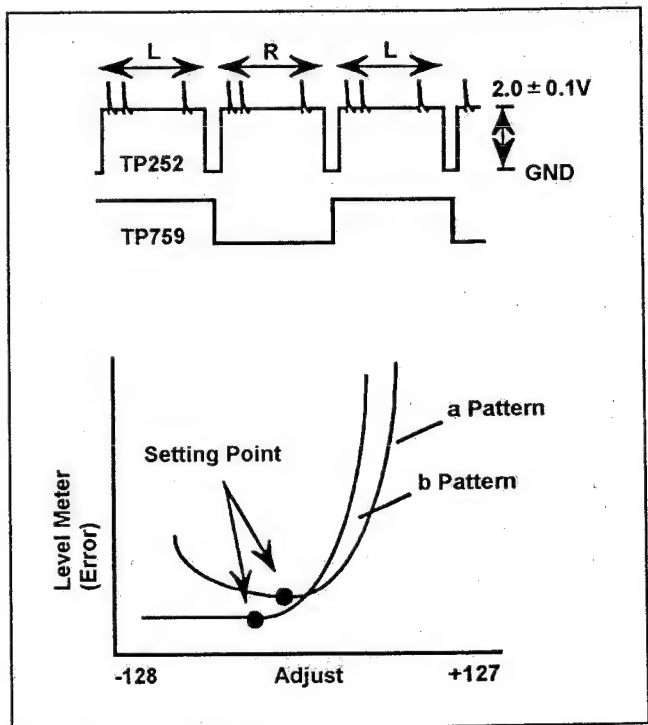
4. Select "D22: DV MAG L" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.

5. Select "D26: DV MAG R" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.

6. Select "D21: DV PHASE L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

7. Select "D25: DV PHASE R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.

8. Select "D23: DV A L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
9. Select "D24: DV B L" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
10. Select "D27: DV A R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
11. Select "D28: DV B R" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
12. Press [MODE] button to exit.



7-8-5. PB EQ Data Save

1. Select "D30: PB DEFAULT" and press "SET" button.
2. Press "UP" button and changes to "SAVE" then press "SET" button.
3. Press [MODE] to exit.

7-8-6. Viterbi Adj.

BOARD	RF
SPEC.	
TP	-
ADJ.	B08: VTB A/2
INPUT	75% Color bar
MODE	PLAY
TAPE	VFM3580KM VFM3010EDS
M. EQ	TV Monitor

1. Connect BER Counter to DIGITAL CORE C.B.A.
VFK1228 (BER Counter Cable)
White Clip: TP201 (SBE)
Blue Clip: TP701 (CLK18)
Black Clip: TG1 (GND)
Red Clip: TP301 (HID)
2. Open the Service Menu and select "B00: MODE SELECT", press [SET] and confirm mode setting as below.
B01: REC DATA SEL
NORMAL
B02: ECC ALL ON
B03: VITERBI OFF
B04: CONCEL ON
B05: PB HEAD PB
B06: TRACKING ATF
B07: MANUAL TRACK 0
3. Back to the Service Menu and select "B00: MODE SELECT".
4. Insert DVCPRO alignment tape and press [END]+[PLAY], playback color bar position.
5. Select "B08: VTB A/2" and adjust this item so that error indication of Audio level meter and BER Counter display becomes minimum by [DATA+] or [DATA-] buttons.
6. Confirm error indication is less than 6 LED lights.
7. Press [DOWN] back to "B05: PB HEAD" and press [DATA-] changes to "R/P" mode.
8. Confirm error indication is less than 11 LED lights.
9. Press [DOWN] back to "B05: PB HEAD" and press [DATA-] changes to "PB" mode and press [EJECT].
10. Insert DV color alignment tape and press [END]+[PLAY].
11. Confirm error indication is less than 12 LED lights.
12. Press [EJECT] and [MODE] to exit.

7-8-7. REC Current Adj.

BOARD	RF
SPEC.	
TP	TP252, TP757
ADJ.	
INPUT	75% Color Bar
MODE	REC
TAPE	
M. EQ	Oscilloscope

1. Open the Service Menu and select "C00: REC ADJUST".
2. Insert recording tape and press [END]+[REC]+[PLAY], recording color bar signal.
3. Select "C01: REC CURR L" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.
4. Select "C02: REC CURR R" and adjust this item so that TP252 level becomes $2.0 \pm 0.1V$ by [DATA+] or [DATA-] buttons.
5. Press [END]+[PAUSE].
6. Set the LOCAL/MENU/REMOTE switch to LOCAL position.
7. Select CTL counter display mode by COUNTER switch and reset count to 0000.
8. Press [PAUSE], unit place in recording mode and record signal about 10 seconds. Press [PAUSE] again.
9. Set the LOCAL/MENU/REMOTE switch to MENU position.
10. Open "C00: REC ADJUST" and select "C01: REC CURR R".
11. Press [UP] 10 times and add 10 for current value.
12. Select "C02: REC CURR L".
13. Press [UP] 10 times and add 10 for current value.
14. Repeat above step 6 to 13 two times.
15. Set the LOCAL/MENU/REMOTE switch to LOCAL position.
16. Rewound tape to CTL 0000 count position.
17. Connect BER Counter to DIGITAL CORE C.B.A.
VFK1228 (BER Counter Cable)
White Clip: TP201 (SBE)
Blue Clip: TP701 (CLK18)
Black Clip: TG1 (GND)
Red Clip: TP301 (HID)

18. Open the Service Menu and select "B00: MODE SELECT", press [SET] and confirm mode setting as below.

B01: REC DATA SEL

NORMAL

B02: ECC ALL ON

B03: VITERBI OFF

B04: CONCEL ON

B05: PB HEAD PB

B06: TRACKING ATF

B07: MANUAL TRACK 0

19. Back to the Service Menu mode.

20. Set BER Counter to L head side.

21. Press [END]+[PLAY], playback recorded portion and measure average error count on the BER Counter.

22. Make memo average count for each setting value of REC Adjust.

23. Back to "C00: REC ADJUST" menu and set L REC current value to most minimum point of above memo.

24. Repeat same step for R head.

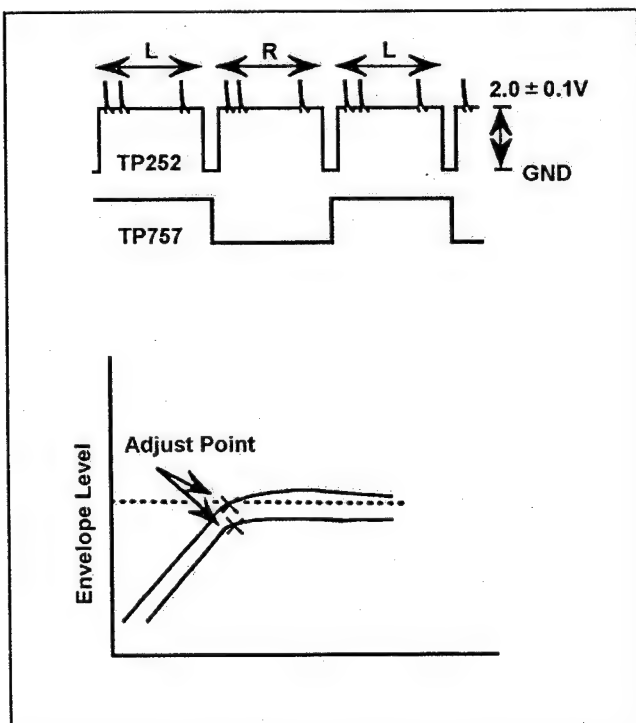
25. Press [MODE], back to Main menu.

7-8-8. REC Data Save

1. Select "C05: REC DEFAULT" and press "SET" button.

2. Press "UP" button and changes to "SAVE" then press "SET" button.

3. Press [MODE], back to Main menu.



7-9. AUDIO

7-9-1. Input Level Adj.

BOARD	AUDIO
SPEC.	-8dBV \pm 0.5dB
TP	Line Out
ADJ.	VR4001: CH1 VR4002: CH2
INPUT	-8dBV, 1KHz
MODE	STOP
TAPE	-
M. EQ	V.T.V.M

1. Adjust VR4001 for channel 1 and VR4002 for Channel 2 so that line out level becomes in above specification.

7-9-2. Audio Level Meter Adj.

BOARD	AUDIO
SPEC.	Indicate -20dB
TP	-
ADJ.	VR4201: CH1 VR4202: CH2
INPUT	-8dBV, 1KHz
MODE	STOP
TAPE	-
M. EQ	-

1. Adjust VR4201 for channel 1 and VR4202 for Channel 2 so that Audio level meter indicate -20dB position.

7-9-3. CUE PB Level Adj.

BOARD	AUDIO
SPEC.	-8dBV \pm 0.5dB
TP	Line Out
ADJ.	VR4401
INPUT	-
MODE	PLAY
TAPE	VFM3580KM
M. EQ	V.T.V.M

1. Adjust VR4401 so that line out level becomes in above specification.

7-9-4. CUE Bias Current Adj.

BOARD	AUDIO
SPEC.	6.5mVrms \pm 0.3mV
TP	TP4302: HOT TP4303: GND
ADJ.	VR4301
INPUT	-
MODE	REC
TAPE	-
M. EQ	V.T.V.M

1. Adjust VR4301 so that line out level becomes in above specification.

7-9-5. CUE REC/PB Level Adj.

BOARD	AUDIO
SPEC.	-8dBV \pm 1dB
TP	Line Out
ADJ.	VR4302
INPUT	-
MODE	Self REC/PLAY
TAPE	Blank tape
M. EQ	V.T.V.M

1. Adjust VR4301 so that line out self recording level becomes in above specification.

Memo

SECTION 6

Digital Video Interface Board AJ-YAD230P

Specifications

■ Digital video interface board

Dimensions (W×H×D) :

6 3/16"×4 3/16"×1 1/16" (157×105×26 mm)

Weight : 0.3036 lb (138 g)

Power consumption : 2 W

● Items packed with board

ROM IC (VSI 2830)

Display label

9-pin/25-pin conversion connector

Model supported

Digital VTR: AJ-D230H

Features

This product is a digital video interface board which is designed exclusively for use in the AJ-D230H VTR.

Installing this board in the AJ-D230H creates an environment in which the AV signal or time codes can be transmitted digitally between AJ-D230H units. (IEEE1394-1995 standard complied with)

An RS-232C connector (9-pin) is provided as a standard accessory.

RS-232C control is enabled using the accessory 9-pin/25-pin conversion connector.

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1. OPERATING INSTRUCTIONS

RS-232C hardware specifications

External interface specifications

Connector:

D-SUB, 9 pins, DCE specifications (straight cable supported)

Pin No.	Signal	Description
2	RD (RXD)	Received data
3	SD (TXD)	Transmitted data
4	ER (DTR)	Data terminal ready
5	SG (GND)	Signal ground
6	DR (DSR)	Data set ready
7	RS (RTS)	Request to send
8	CS (CTS)	Clear to send

Example of wiring connections

Personal computer side
(D-SUB, 9-pin connector)

VTR side

2	RD (RXD)	←	2	RD (RXD)
3	SD (TXD)	→	3	SD (TXD)
4	ER (DTR)	→	4	ER (DTR)
5	SG (GND)	→	5	SG (GND)
6	DR (DSR)	←	6	DR (DSR)
7	RS (RTS)	→	7	RS (RTS)
8	CS (CTS)	→	8	CS (CTS)

For details on other specifications relating to RS-232C, refer to the operating instructions of the AJ-D230H.

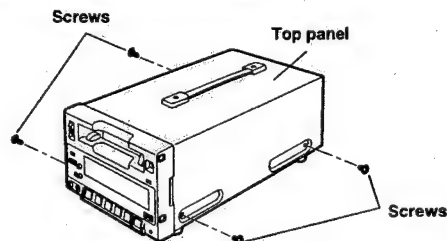
E-3

Installing the board in the AJ-D230H

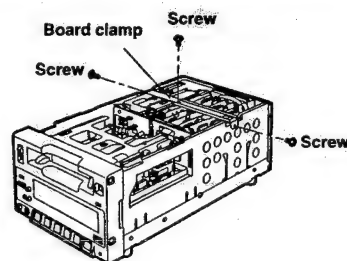
This board must be installed in the AJ-D230H for use. Follow the steps below for installation.

- The AJ-D230H's power cord must be disconnected before proceeding with installation.

1. Take out the four screws on both side panels of the AJ-D230H, and remove the top panel.

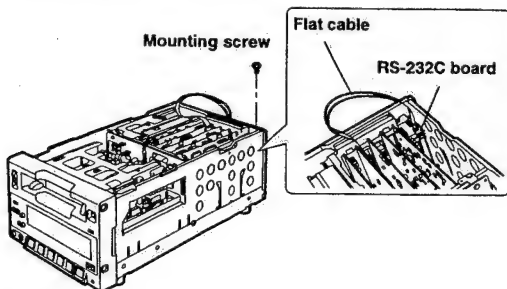


2. Remove the three screws, and remove the board clamp.



E-4

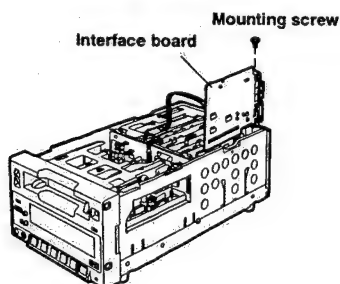
3. Disconnect the RS-232C board's flat cable, and undo the mounting screw to remove the RS-232C board.



4. Insert the interface board in the position previously occupied by the RS-232C board, and screw it in place.

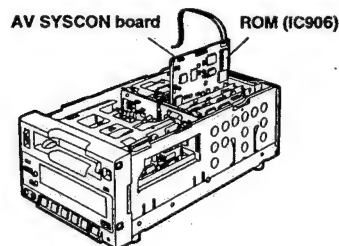
<Notes>

- Do not connect the flat cable.

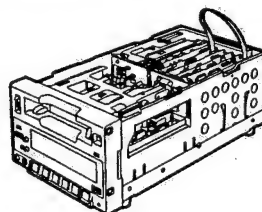


E-5

5. Pull out the AV SYSCON board, and replace the ROM (IC906) on the board with the ROM (VSI 2830) accompanying the interface board.

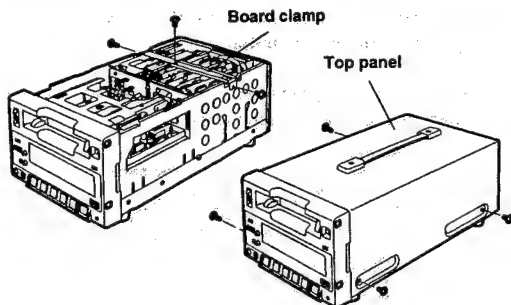


6. Insert the AV SYSCON board again, and connect the flat cable to the interface board.

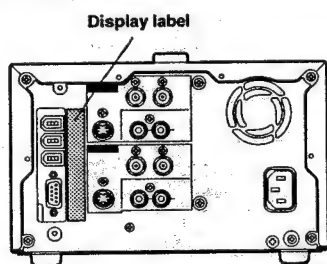


E-6

7. Attach the board clamp, and mount the top panel.
(These parts must be installed securely using the screws.)



8. Affix the display label packed together with the interface board to the rear panel.



E-7

<Notes>

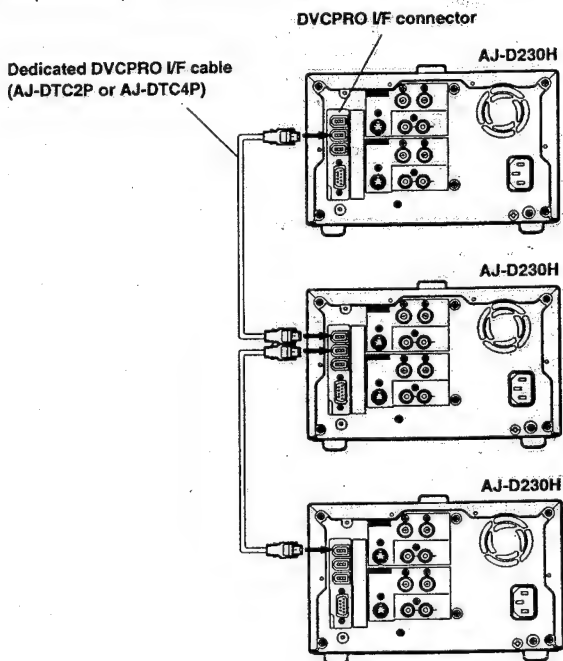
- Use a dedicated DVCPRO I/F cable (AJ-DTC2P or AJ-DTC4P) for the connection.
- Avoid a loop connection since this will prevent the units from operating properly.
- The maximum number of the AJ-D230H which can be connected is three.
- The AV signals may be disturbed when the power of the connected units is turned ON or OFF and when the I/F cable is plugged in or disconnected.
- It may take several seconds for the system operation to stabilize when the input signals are selected or the mode is changed. Wait until the system operation has stabilized before proceeding to record.
- When a DVCPRO I/F input is used, the analog video output signals in the EE mode do not comply with the RS-170A standard. All video output signals are for monitoring purposes. Do not use them for recording or other such applications (although they can be used for playback). Although the distinctions between the colors may become blurred with color bar signals and other dark-shaded color signals, no problems are posed when it comes to recording them on the tape in the main unit.
- If the analog video input is a non-standard signal such as VHS, the picture and sound on the receiver connected by the DVCPRO I/F may be disturbed.
- The volume recording level control on the front panel does not function while recording with the DVCPRO I/F input is in progress.
- Signal input for the consumer-use DV format is not supported.
- When a consumer-use DV format tape is played back on the AJ-D230H, the 1394 output will be set to the DV format.

E-9

Equipment connections

Use a dedicated DVCPRO I/F cable (AJ-DTC2P or AJ-DTC4P) to connect the AJ-D230H.

(The input/output pins on the DVCPRO I/F connector are bidirectional. No distinction is made between the input and output sides.)



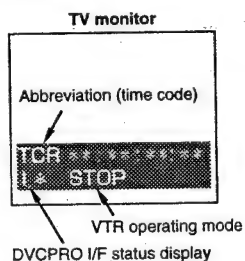
E-8

AJ-D230H settings

1. When two or more AJ-D230H units are to be connected, set the INPUT SELECT switch (front panel) of the AJ-D230H unit at the receiving end to the OPTION position.
2. The set-up menus for the AJ-D230H units at both the sending and receiving ends are now opened.
(Set the LOCAL/MENU/REMOTE switch on the front panel to MENU.)
3. Check that the set-up menu item No.803 (DIF OUTPUT CH) at the sending end and the set-up menu item No.802 (DIF INPUT CH) at the receiving end match. If they do not match, adjust the channel settings.

Superimposed display screen

When "T.STA" is used as the "DISPLAY SEL" set-up menu item setting, the superimposed screen appearing on the TV monitor which is connected to the MONITOR OUT connector looks as shown below.



Display	DVCPRO I/F status
I	DVCPRO signal is received.
I *	Signal reception mode is established but packet is not present or there is some other problem.
O	DVCPRO signal is transmitted.
O *	DV signal is transmitted.
O *	Signal transmission mode is established but signals cannot be transmitted.
No display	Stop mode

E-10

AJ-D230H set-up menus

The set-up menus change as follows once the interface board is installed in the AJ-D230H.

Item		Setting		Description of settings
No.	Super-imposed display	No.	Super-imposed display	
208	REMOTE SEL	<u>0000</u> 0001	<u>1394</u> RS-232C	This sets the external control. 0: Control is exercised by the DVCPRO I/F AV/C command. 1: Control is exercised by the RS-232C (9pin D-SUB) connector. <Notes> • Menu item No.204 (ACK RETURN) must be set to ON (0001) if control is to be exercised by the 1394 settings. • A change made to the REMOTE SEL setting will take effect only when the power is turned off after the setting has been changed and then turned back on.
507	TC MODE	0000 0001 <u>0002</u> 0003	P-REC P-FREE <u>I-REGEN</u> EXT-TC	This sets the time code mode. 0: The time code generator is used in the REC RUN mode. 1: The time code generator is used in the FREE RUN mode. 2: The time code generator is used in the internal regeneration mode. 3: When the INPUT SELECT switch is at the LINE/S-VIDEO position, VITC is selected; when it is at the OPTION position, the DVCPRO I/F time code input is selected.

The underlined number and item are the factory settings.

E-11

Item		Setting		Description of settings
No.	Super-imposed display	No.	Super-imposed display	
800	DIF SPEED	0000 <u>0001</u>	S100 <u>S200</u>	This sets the DVCPRO I/F transmission rate. 0: 100 Mbps 1: 200 Mbps
802	DIF INPUT CH	<u>0000</u> : 0063	<u>0</u> : 63	This selects the DVCPRO I/F input channel. (See page E-10)
803	DIF OUTPUT CH	<u>0000</u> : 0063	<u>0</u> : 63	This selects the DVCPRO I/F output channel. (See page E-10)
805	DIF REC SEL	<u>0000</u> 0001	<u>ERASE</u> STOP	This sets the mode when the input data cannot be recorded. 0: The erase (all data erase) mode is set. 1: Recording is stopped. <Notes> • "E-02" is displayed on the front panel while erase (all data erase) mode is in progress. • Recording is not possible with consumer-use DV signals.

The underlined number and item are the factory settings.

E-12

AJ-D230H VTR modes and input/output statuses

VTR mode	INPUT SELECT switch (front panel) position	S/F/R EE SEL (set-up menu item No.102)	Input signal status	DVCPRO I/F mode	VIDEO OUT MONITOR OUT	AUDIO OUT HEADPHONE
STOP	LINE/S-VIDEO	EE	○ x	Output EE (LINE/S-VIDEO) Output stop	EE (LINE/S-VIDEO) Black	EE (AUDIO IN) No output
		TAPE	* ○ x	Output TAPE Input Input stop	TAPE 1) Black	No output EE (DVCPRO I/F) No output
	OPTION	*	x	Input stop	Black	No output
		*	x	Input stop	Black	No output
FF REW	LINE/S-VIDEO	EE	○ x	Output TAPE Output TAPE	EE (LINE/S-VIDEO) Black	EE (AUDIO IN) No output
		TAPE	* *	Output TAPE Output TAPE	TAPE TAPE	TAPE (CUE) TAPE (CUE)
	OPTION	*	*	Output TAPE	TAPE	TAPE (CUE)
		*	*	Output TAPE	TAPE	TAPE (CUE)
STANDBY OFF	LINE/S-VIDEO	EE	○ x	Output EE (LINE/S-VIDEO) Output stop	EE (LINE/S-VIDEO) Black	EE (AUDIO IN) No output
		TAPE	* *	Output stop Input	Black 1)	No output EE (DVCPRO I/F)
	OPTION	*	○ x	Input Input stop	1) Black	EE (DVCPRO I/F) No output
		*	x	Input stop	Black	No output
PLAY/PAUSE Frame feed SEARCH	*	*	*	Output TAPE	TAPE	TAPE
REC/PAUSE	LINE/S-VIDEO	*	○ x	Output EE (LINE/S-VIDEO) Output stop	EE (LINE/S-VIDEO) Black	EE (AUDIO IN) No output
		*	○ x	Input Input stop	1) Black	EE (DVCPRO I/F) No output
	OPTION	*	x	Input stop	Black	No output
		*	x	Input stop	Black	No output
EJECT	LINE/S-VIDEO	*	○ x	Output EE (LINE/S-VIDEO) Output stop	EE (LINE/S-VIDEO) Black	EE (AUDIO IN) No output
		*	○ x	Input Input stop	1) Black	EE (DVCPRO I/F) No output
	OPTION	*	x	Input stop	Black	No output
		*	x	Input stop	Black	No output

Once this board is installed in the AJ-D230H, the displays or operation of functions for some of the AJ-D230H menu settings or modes may differ from the time before the board is installed.

<Notes>

- * : This does not depend on the status.
- : Normal signal
- x : No signal
- 1) : This is a non-standard signal and, as such, it can be used only for monitoring purposes.

E-13

E-14

Memo

SECTION 7

EXPLODED VIEWS & REPLACEMENT PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ F.
3. The P.C. Board units marked with "■" shown below the main assembled parts.
4. The parts marked with © on the exploded view show the electric parts.
5. **IMPORTANT SAFETY NOTICE**
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

<<Abbreviations for part>>

<NAME>		<DESCRIPTIONS>
C. CAPACITOR	:	CERAMIC CAPACITOR
C. CAPACITOR	CH :	CERAMIC CHIP CAPACITOR
E. CAPACITOR	:	ELECTROLYTIC CAPACITOR
G. CAPACITOR	:	GLASS CAPACITOR
M. CAPACITOR	:	MICA CAPACITOR
P. CAPACITOR	:	PLASTIC FILM CAPACITOR
S. CAPACITOR	:	SEMI-CONDUCTOR CAPACITOR
T. CAPACITOR	:	TANTALUM CAPACITOR
TRIMMER	:	TRIMMER
C. RESISTOR	:	CARBON RESISTOR
F. RESISTOR	:	FUSE RESISTOR
M. RESISTOR	:	METAL OXIDE RESISTOR
M. RESISTOR	CH :	METAL OXIDE CHIP RESISTOR
S. RESISTOR	:	SOLID RESISTOR
V. RESISTOR	:	VARIABLE RESISTOR
W. RESISTOR	:	WIRE WOUND RESISTOR
COMBI. TR-R	:	TRANSISTOR-RESISTOR COMBINATION PARTS
COMBI. R-R	:	RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R	:	CAPACITOR-RESISTOR COMBINATION PARTS
COMBI. C-R-R	:	CAPACITOR-RESISTOR-COIL COMBINATION PARTS
P.C. BOARD	:	PRINTED CIRCUIT BOARD
W/COMPONENT	:	WITH COMPONENT

CONTENTS

D230HP

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SERVICING FIXTURES & TOOLS

AJ-D230HP

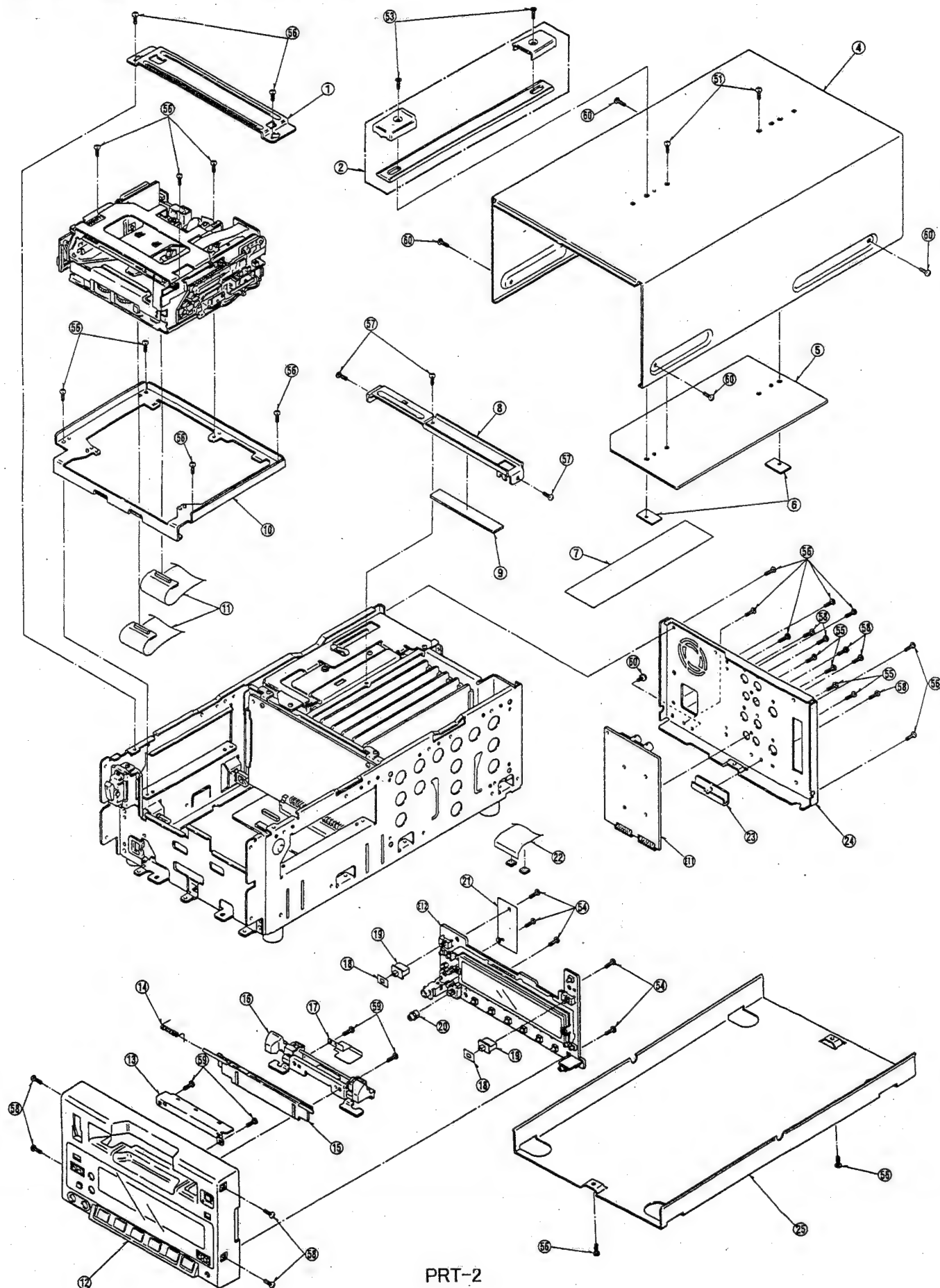
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145	BACK TENSION METER(T2-M30	1						
2	VFK1149	POST DRIVER	1						
3	VFK71	DIAL TORQUE GAUGE(150G)	1						
4	VFK1191	DIAL TORQUE GAUGE(45G)	1						
5	VFK1152	DIAL TORQUE GAUGE ADAPTOR	1						
6	VFK0357	ECCENTRIC SCREWDRIIVER(1.5	1						
7	VFK1154	POST HEIGHT FIXTURE	1						
8	VFK1153	MECH. NEUTRAL PLATE(POST)	1						
9	VFK1157	MECH. NEUTRAL PLATE(CASSE	1						
10	VFK1155	NEUTRAL POSITION TOOL(GOL	1						
11	VFK1156	NEUTRAL POSITION TOOL(BLA	1						
12	VFK1208	NEUTRAL POSITION TOOL(BLA	1						
13	VFK1150	NUT DRIVER(5.5MM)	1						
14	VFK1151	NUT DRIVER(2.5MM)	1						
15	VFK1188	DIAL TENSION GAUGE(30G)	1						
16	VFK0948A	CHECK LIGHT	1						
17	VFK0749	FROIRAL GREASE(FOR PLASTI	1						
18	MOR265	MOLYTONE GREASE(FOR METAL	1						
19	VFK1146	PHILIPS DRIVER(FINE) (00-7	1						
20	VFK1147	PHILIPS DRIVER(FINE) (0-10	1						
21	VFK1148	HEX. DRIVER(1.5)	1						
22	VFK1178	HEX. DRIVER(0.89)	1						
23	VFK1179	HEX. DRIVER(0.71)	1						
24	VFK1190	HEX. WRENCH	1						
25	VFK1209	TORQUE DRIVER(0.4-3KG)	1						
26	VFK0912	POST AXIS DRIVER(1.5MM)	1						
27	VFK1300	A/D BOARD(DAQ-12, QUATECH)	1						
28	VFM3580KM	ALIGNMENT TAPE(NO.1)	1						
29	VFM3581KM	ALIGNMENT TAPE(NO.2)	1						
30	VFM3582KM	ALIGNMENT TAPE(NO.3)	1						
32	VFK1159	LISTA SOFTWARE	1						
33	VFK1186	LISTA CABLE	1						
34	VFK0369	TWEEZERS	1						
35	VFK0371	RADIO PRIER	1						
36	VFK0372	CUTTER PRIER	1						
37	VFK0338	TRIMMER ADJUSTMENT DRIVER	1						
38	VFK0337	PHILIPS DRIVER	1						
39	VFM3000EDS	ALIGNMENT TAPE(DV LISTA)	1						
40	VFM3010EDS	ALIGNMENT TAPE(DV COLOR B	1						
45	VFK1160B	RF ADJUSTMENT SOFT	1						
46	VFK1163	RF ADJUSTMENT TOOL	1						

LIBRARY

AJ-D230HP

PRT-1

CASING PARTS ASSEMBLY



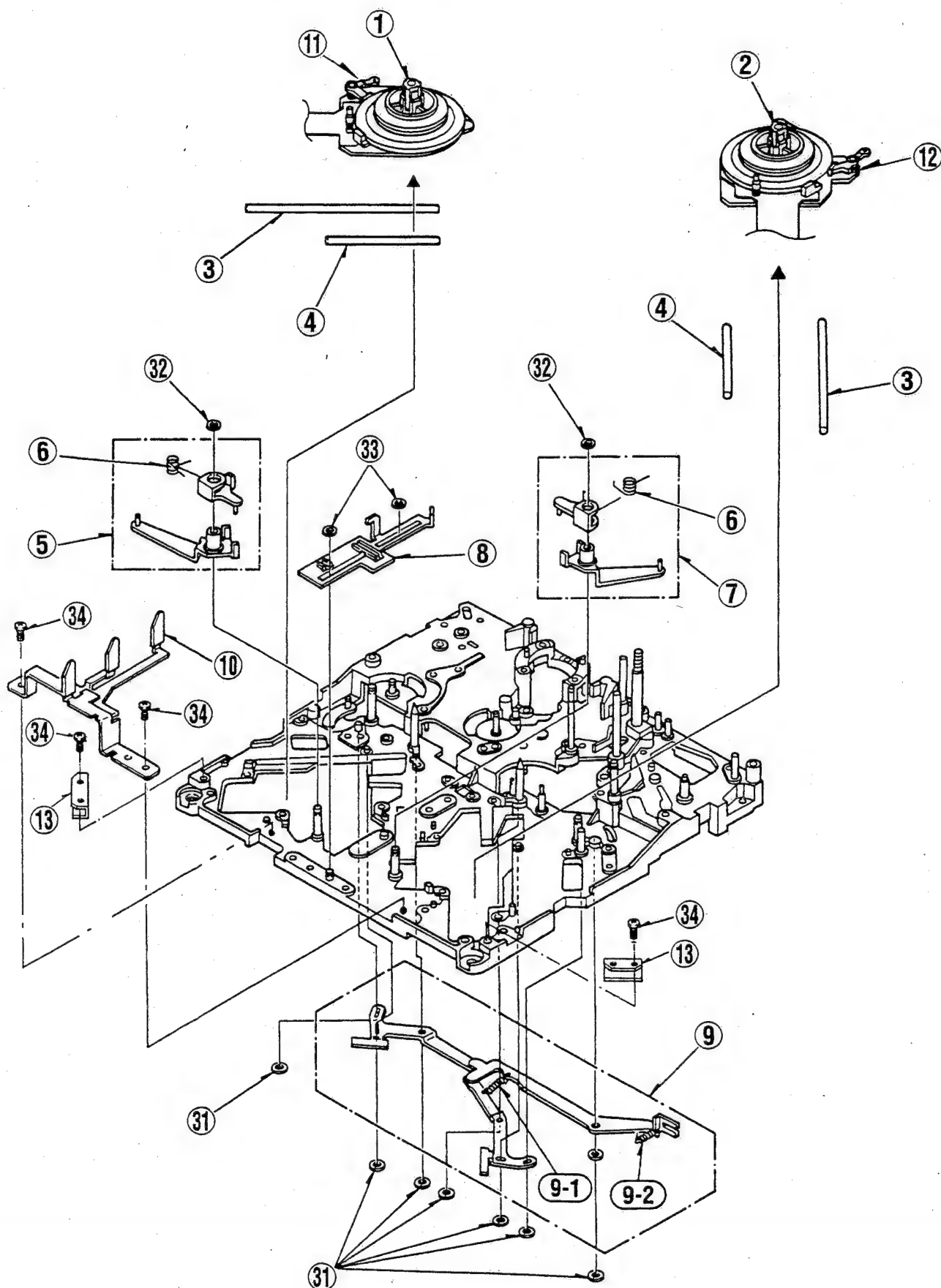
PRT-2

MECHANICAL CHASSIS ASSEMBLY (1)


AJ-D230HP

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEM0635	S REEL MOTOR A U.	1	(M)
2	VEM0636	T REEL MOTOR A U.	1	(M)
3	VMS5923	REEL OUTER RAIL	2	
4	VMS5924	REEL INNER RAIL	2	
5	VXL2589	S BASE DRIVE ARM U.	1	
6	YMB2944	CHARGE SPRING	2	
7	VXL2590	T BASE DRIVE ARM U.	1	
8	VXA5625	SLIDE ROD U.	1	
9	VXL2597	M STOPPER DRIVE ARM U.	1	
9-1	YMB2955	M STOPPER SPRING (1)	1	
9-2	YMB3017	M STOPPER SPRING (2)	1	
10	VXA6174	L-M RELEASE ANGLE ASS'Y	1	
11	VXZ0424	S BRAKE ARM ASS'Y	1	
12	VXZ0425	T BRAKE ARM ASS'Y	1	
13	VMZ2603	REEL FLEX. COVER	1	
31	VMX1061	WASHER	7	
32	VMX1079	CUT WASHER	2	
33	VMX1394	CUT WASHER	2	
34	XON2+CF3	SCREW	4	

MECHANICAL CHASSIS ASSEMBLY (1)



PRT-4


Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY (2)

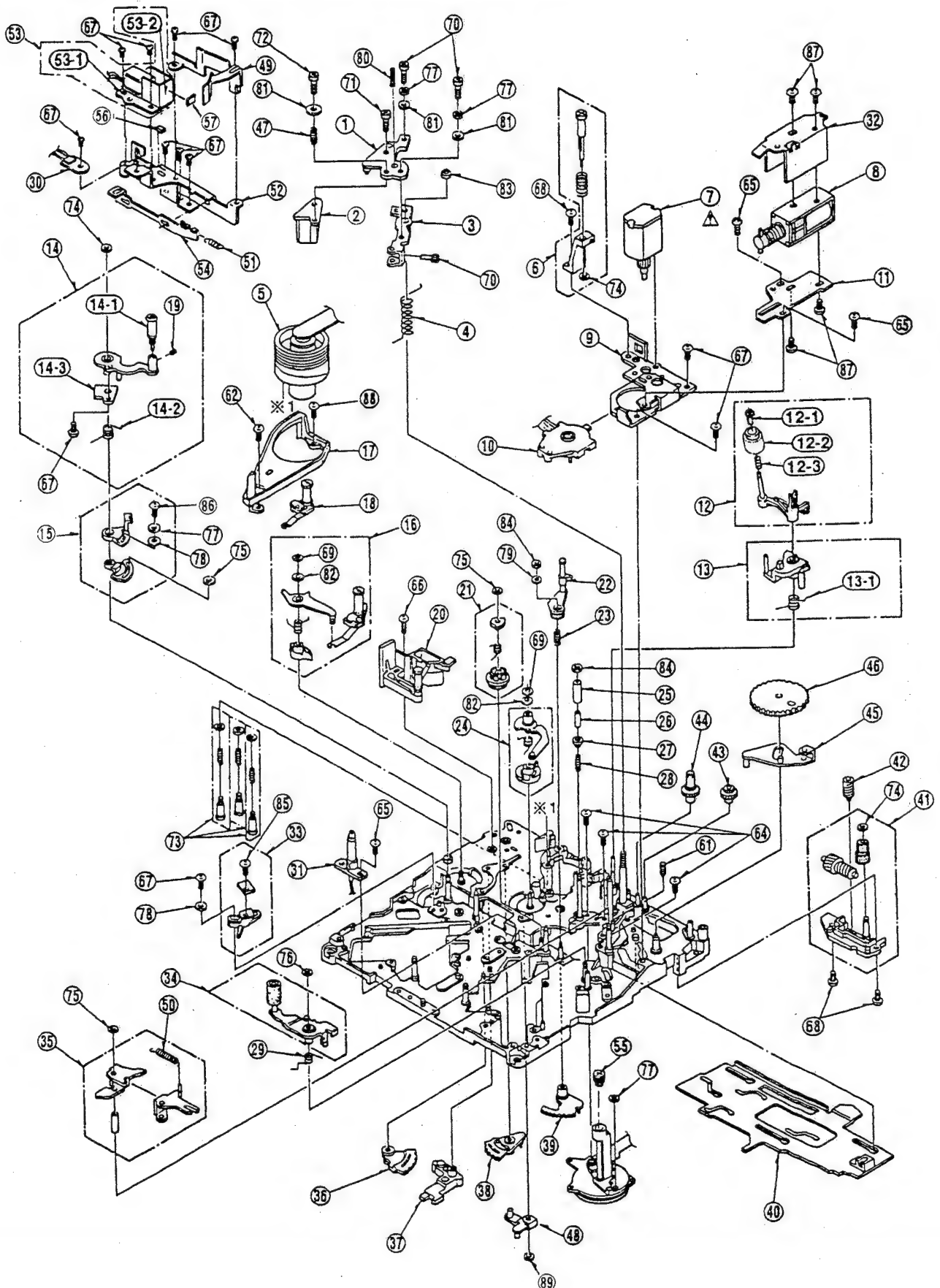
AJ-D230HP

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) U	1	
2	VED0419	A/C HEAD	1 (M)	
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
5	VEG1457	CYLINDER UNIT	1 (M)	
6	VXA5715	EMARGENCY SHIFT HOLDER U	1	
7	VEM0645	LOADING MOTOR (1) AU	1 (M)	
8	VSJ0227	PINCH SOLENOID	1 (M)	
9	VXA5584	MOTOR ANGLE U.	1	
10	VES0814	MODE SW U	1 (M)	
11	VMA9376	PINCH SOLENOID BASE	1	
12	VXL2748	CLEANING ARM AU	1 (M)	
12-1	VMX2150	CLEANER ROLLER HOLDER	1	
12-2	VXP1808	CLEANER ROLLER UNIT	1	
12-3	VMB3114	CLEANER ROLLER SPRING	1	
13	VXL2707	T2 ARM U.	1	
13-1	VMB2932	T2 ARM SPRING	1	
14	VXL2832	TENSION ARM S ASS'Y	1 (M)	
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER N ASS'Y	1	
15	VXA5791	TENSION LEG SPRING HOOK U	1	
16	VXL2812	S1 LOADING ARM N ASS'Y	1 (M)	
17	VMD2533	LOADING RAIL	1	
18	VXA6108	T1 BOAT ASS'Y	1 (M)	
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE AU.	1 (M)	
21	VXP1683	T4 CONNECTION GEAR U	1	
22	VXL2772	T4 ARM U	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2842	T LOADING ARM N ASS'Y	1	
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULATION SENSOR	1	
31	VEK7691	LED HOLDER P.C. BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR U.	1	
34	VXL2835	PINCH ARM ASS'Y	1 (M)	
35	VXL2588	PINCH GUIDE ARM U	1	
36	VXA5570	T SECTOR GEAR U	1	
37	VXL2838	TENSION LEG. GUIDE ARM U	1	
38	VXA5567	S SECTOR GEAR U	1	
39	VXA5564	T4 SECTOR GEAR U.	1	
40	VXA5563	MAIN ROD U	1	
41	VXA5627	THRUST SHAFT HOLDER U	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	1	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1	
45	VXL2841	MAIN CAM ARM ASS'Y	1	
46	VDG1168	MAIN CAM GEAR	1 (M)	
47	VMB2937	A/C HEAD ADJUST SPRING	1	
48	VXL2600	EJECT ARM U	1	
49	VXA5770	T1 GUIDE U.	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1 (M)	
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VX00556	THRUST SCREW U.	1 (M)	
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XON2+A3	SCREW	1	
64	XON2+A35FZ	SCREW	3	
65	XON2+AM2	SCREW	3	
66	XON2+AM4	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
67	XON2+CF3	SCREW	12	
68	XON2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VX00439	SCREW	3	
74	VMX0967	CUT WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VN	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XON2+AQ3.5FZ	SCREW	1	
86	XON2+AJ5	SCREW	1	
87	XON2+A1.5	SCREW	4	
88	XON2+A4	SCREW	1	
89	VMX1394	CUT WASHER	1	
*	VXY1318Z1	MECHANISM	1	

Components identified with the mark  have the special characteristics for safety.
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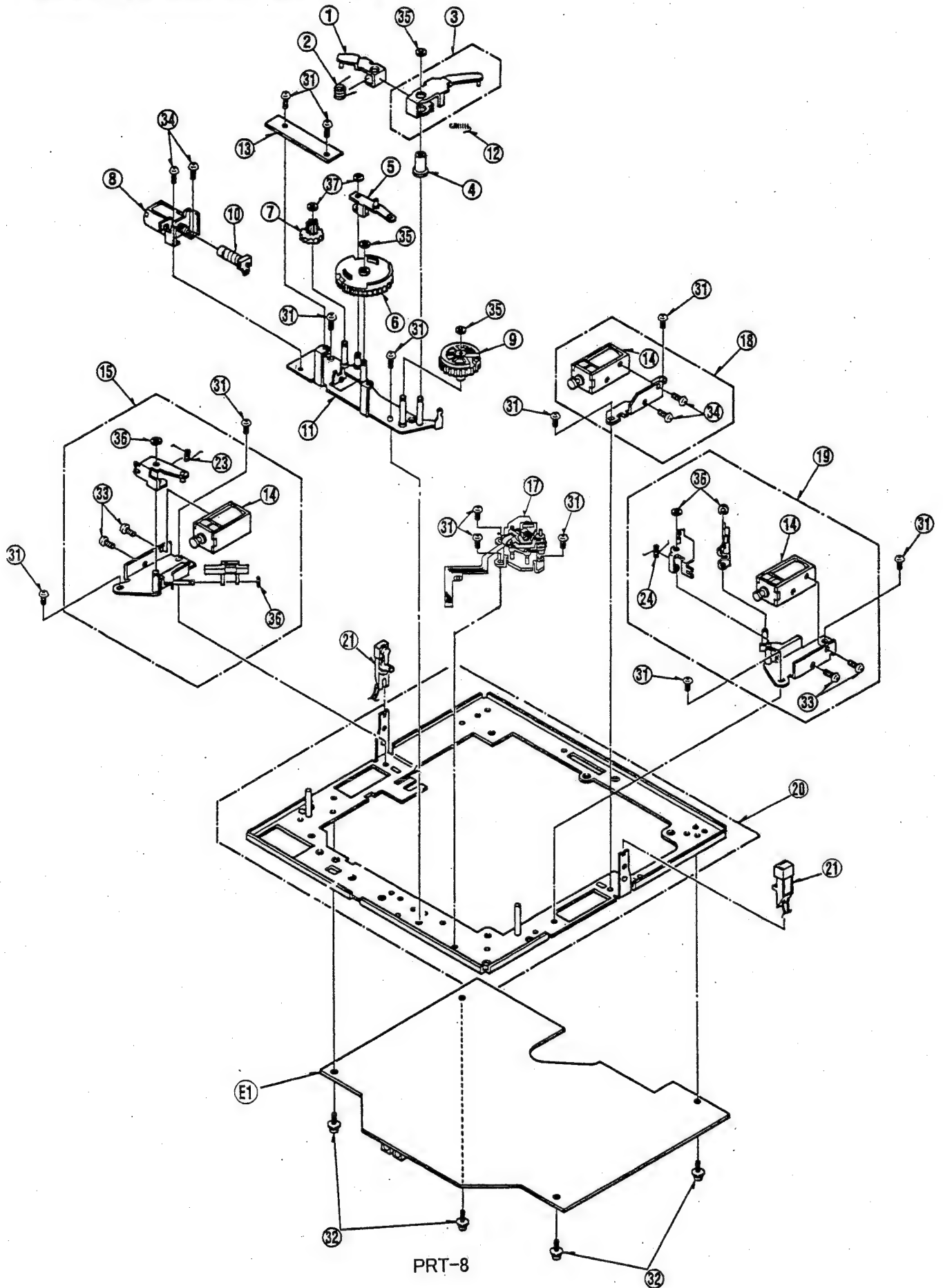
MECHANICAL CHASSIS ASSEMBLY (2)



AJ-D230HP

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SUB CHASSIS ASSEMBLY

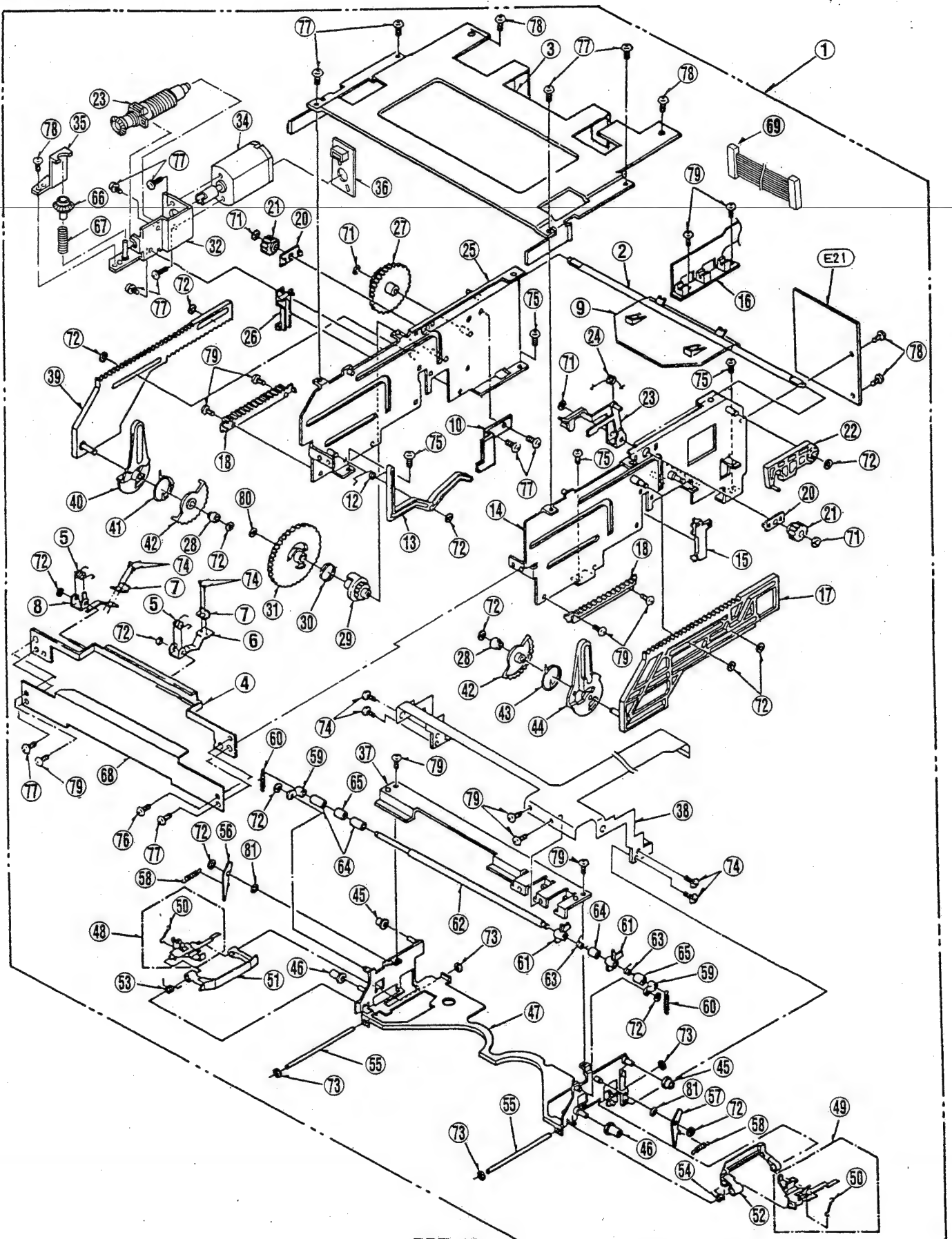



CASSETTE COMPARTMENT ASSEMBLY

AJ-D230HP

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6070	CASSETTE COMPARTMENT	1 (M)		76	XON2+A2	SCREW	2	
2	VMS5865	MAIN SHAFT	1		77	XYN2+C3	SCREW	12	
3	VMA9849	TOP PLATE	1		78	XON2+A3	SCREW	5	
4	VXA5761	FRONT GUIDE 1 U.	1		79	LMHD16061	SCREW	10	
5	VMB3075	M GUIDE SPRING	2		80	XWGV2Y4G	WASHER	2	
6	VML3191	M GUIDE RIGHT LEVER	1		81	XWGV2Z5G	WASHER	2	
7	VML3192	M FRONT GUIDE	2						
8	VML3190	M GUIDE LEFT LEVER	1						
9	VML3196	CASSETTE PROTECT PLATE	1		E22	VEP80856A	CARRIGE P. C. BOARD	1	
10	VMA9760	L OPENER	1						
12	VMB2926	SPRING	1						
13	VML2A50	BLINDER PANEL OPENER	1						
14	VXA6074	R SIDE PLATE 1 U	1						
15	VML3282	SUB RAIL (R)	1						
16	VEK7695	SIDE FLEXIBLE	1						
17	VXA5766	MAIN RACK R U	1						
18	VDG1156	WIPER RACK	2						
20	VDB1395	MAIN SHAFT ANGLE	2						
21	VDG1155	INTERLOCK GEAR	2						
22	VML3193	OPENER DRIVE ARM	1						
23	VXL2692	OPENER ANGLE U	1						
24	VMB2979	SPRING	1						
25	VXA6072	SIDE PLATE L 1 U	1						
26	VML3281	SUB RAIL (L)	1						
27	VDG1254	INTERMEDIATE GEAR	1						
28	VDP1643	WIPER ROLLER	2						
29	VDG1237	CLUTCH GEAR	1						
30	VMB2980	CLUTCH SPRING	1						
31	VDG1236	WORM WHEEL	1						
32	VXA5848	MOTOR ANGLE (A) U.	1						
33	VXP1797	E.E SLOT IN WORM U.	1						
34	VXA5597	MOTOR U.	1 (M)						
35	VMA9673	EMERGENCY ANGLE	1						
36	VEK7793	MOTOR P. C. BOARD	1						
37	VMA9668	HOLDER PLATE	1						
38	VEK7715	HOLDER FLEXIBLE U.	1						
39	VXA6075	MAIN RACK (L) ASS'Y	1						
40	VML2A49	WIPER ARM L	1						
41	VMB2925	WIPER SPRING L	1						
42	VDG1163	WIPER GEAR	2						
43	VMB3013	WIPER SPRING R	1						
44	VML2A52	WIPER ARM R	1						
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2						
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2						
47	VXA5757	CASSETTE HOLDER 1 U	1						
48	VXA5758	ROD L	1						
49	VXA5759	ROD R	1						
50	VMB3064	SLIDE SPRING	2						
51	VML3249	SIDE GUIDE L	1						
52	VML3250	SIDE GUIDE R	1						
53	VMB3061	SLIDE GUIDE SPRING L	1						
54	VMB3062	SLIDE GUIDE SPRING R	1						
55	VMS6108	KICK OFF ROD SHAFT	2						
56	VML2A54	KICK OFF ARM L	1						
57	VML2A55	KICK OFF ARM R	1						
58	VMB2928	KICK OFF SPRING	2						
59	VML2A53	CASSETTE HOLDER ARM	2						
60	VMB2927	CASSETTE HOLDER SPRING	2						
61	VMX2525	M-L DETECTION ROLLER	2						
62	VMS5882	CASSETTE HOLDER SHAFT	1						
63	VMB3253	M-L DETECTION SPRING	2						
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3						
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	1						
66	VDG1246	EMERGENCY GEAR	1						
67	VMB3109	EMERGENCY SPRING	1						
68	VMZ2661	FRONT GUIDE COVER	1						
69	VEE9577	CABLE	1						
71	VMX0653	CUT WASHER	4						
72	VMX0967	CUT WASHER	14						
73	VMX1061	WASHER	4						
74	XON16+A2	SCREW	8						
75	XON2+CF3	SCREW	4						

CASSETTE COMPARTMENT ASSEMBLY



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CHASSIS FRAME ASSEMBLY

AJ-D230HP

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AJ-D230HP
VEP01792A / VEP00Z78A

[illegible]

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C9159	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C9161	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C9162	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9163, 64	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C9165	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9166-68	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C9169	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9170, 71	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C9172	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9173, 74	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C9175	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9176	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C9177	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9178, 79	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C9180	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9181-83	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C9184	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9188, 89	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C9190, 91	ECEA1CGE470	E. CAPACITOR 16V 47U	2	
C9192-94	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C9195	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9196, 97	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C9198	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
C9199	ECEA1CGE101	E. CAPACITOR 16V 100U	1	
C9200	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C9201	ECEA0JGE471	E. CAPACITOR 6.3V 470U	1	
C9203	ECUM1H272KBN	C. CAPACITOR CH 50V 2700P	1	
C9204	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	1	
C9205	ECA1VF0561	E. CAPACITOR 35V 560U	1	
C9210	ECEA1HGE2R2	E. CAPACITOR 50V 2.2U	1	
C9211	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C9212	ECEA1CGE101	E. CAPACITOR 16V 100U	1	
C9213-15	ECEA1CGE470	E. CAPACITOR 16V 47U	3	
C9304, 05	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C9501	ECEC1CP123B	E. CAPACITOR 16V 0.01M	1	
D9101, 02	MA3062M	D10DE	2	
D9103	8P2M	D10DE	1	
D9104	MA4030-L	D10DE	1	
D9105-07	MA151K	D10DE	3	
D9108	MA701A	D10DE	1	
D9109-15	MA151K	D10DE	7	
D9201	MA115	D10DE	1	
D9202	MA4270M	D10DE	1	
D9204	MA115	D10DE	1	
D9205	MA3062M	D10DE	1	
FL9101-16	VLF0931	FILTER	16	
IC9101	XC62AP5002P	IC	1	
IC9103	XC62DN5002P	IC	1	
IC9104	AN78M09	IC	1	
IC9105	UPC39362	IC	1	
IC9301	UPC455862	IC	1	
J9101, 02	ERJ8GCV0R00	M. RESISTOR CH 1/8W 0	2	
P9101, 02	VJS3324	CONNECTOR (FEMALE)	2	
P9301	VJS2898A064P	CONNECTOR (FEMALE)	1	
P9304-07	VJS3657	CONNECTOR (FEMALE)	4	
P9308	VJS3537B024G	CONNECTOR (FEMALE)	1	
P9310, 11	VJS3600F016K	CONNECTOR (FEMALE)	2	
P9312	VJS3657	CONNECTOR (FEMALE)	1	
P9501	VJS2899A096P	CONNECTOR (FEMALE)	1	
P9502	VJP1231T	CONNECTOR (MALE) 4P	1	
P9503	VJP1230T	CONNECTOR (MALE) 3P	1	
P9504, 05	VJP3949A070H	CONNECTOR (MALE)	2	
Q9101	2SD2136-Q	TRANSISTOR	1	
Q9102, 03	2SB1073-R	TRANSISTOR	2	
Q9106-10	2SD1119-R	TRANSISTOR	5	
Q9111	2SD2136-Q	TRANSISTOR	1	
Q9112	2SD1119-R	TRANSISTOR	1	
Q9113	2SB709A-R	TRANSISTOR	1	
Q9115	2SD601A-R	TRANSISTOR	1	

VEP00Z78A / VEP03E54B

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3206	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3207	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3208	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3210, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3212	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C3213	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3214	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3215-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C3220	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3221	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3222, 23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3224	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3226	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3227	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3228	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
C3229, 30	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3231	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3232	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3233	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3234	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3235-39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C3240	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3241	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3242	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3243	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3245	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3247	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3248, 49	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C3250	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3251	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3252	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3253	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3254	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3255	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3301	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3302	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3303	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3304	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3305	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3306	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3308	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3310	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3311	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3312	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3313	ECEV0JN470Q	E. CAPACITOR CH6.3V 47U	1	
C3314	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3315	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3316	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3317	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3318	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C3401-03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3405	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3406	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3407	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3408	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3409	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3410	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3411	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3412	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3413	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3414, 15	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	2	
C3416	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3417	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3418-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3421	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3423	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3424	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3425	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3426	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3427	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3428	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	

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VEP03E54B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3506	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3507	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3508	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3509	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3510	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3511-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C3514	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3515	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3516, 17	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	2	
C3518	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3522	ECEV1H4V70Q	E. CAPACITOR CH 50V 4.7U	1	
C3523	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3524	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3525	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3526	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3527	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3528, 29	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C3530	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3531	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3532	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3533	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3534	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3535	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3536	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3537-41	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	5	
C3542	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3543	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3601-04	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	4	
C3701	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3702	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C3703	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3704	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C3705	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3706	VCK0152	C. CAPACITOR	1	
C3707	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3708	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3709	VCK0151	C. CAPACITOR	1	
C3710	VCK0152	C. CAPACITOR	1	
C3711-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C3714	VCK0151	C. CAPACITOR	1	
C3715-17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C3718	VCK0151	C. CAPACITOR	1	
C3719, 20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3721, 22	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	
C3723	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3724, 25	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	
C3726	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3727	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3728	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3729	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3730	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3731	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3733	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3734	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3736	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3737	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3738	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3739	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3741	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3744	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3747	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3748	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3749	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3750	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3751	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3752	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3754	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3755	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3756	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3757-60	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C3761, 62	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	
C3763	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3764	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3765	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3801	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3802	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3803	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3804	ECU1C392J	P. CAPACITOR 16V 3900P	1	
C3805	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C3806	ECU1C152J	P. CAPACITOR 16V 1500P	1	
C3807	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3808	ECUM1C334KBM	C. CAPACITOR CH 16V 0.33U	1	
C3809	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C3810	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C3811	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C3812	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3813	ECEV1H4V70Q	E. CAPACITOR CH 50V 4.7U	1	
C3814	ECEV1H0V10Q	E. CAPACITOR CH 50V 1U	1	
C3815, 16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3817	ECU1C683JB5	P. CAPACITOR 16V 0.068U	1	
C3818	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3821	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3822	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C3823	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3825	ECEV1H2R2Q	E. CAPACITOR CH 50V 2.2U	1	
C3828	ECEV0JN470Q	E. CAPACITOR CH6. 3V 47U	1	
C3829	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C3830	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3831	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3832	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3833	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3834	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3835	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3836	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3837	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3838	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3839	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3840	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3841	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3842	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3843	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3844	ECEV1EN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C3845	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3901	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3902	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3903	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3904	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C3905	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3906, 07	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3908	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C3909, 10	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3911	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C3912	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3913	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3914	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C3915	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	1	
C3916	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3917, 18	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C3920-22	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C3923	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C3952, 53	ECUX1E104ZFY	C. CAPACITOR CH 25V 0.1U	2	
C3954	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3955, 56	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
D3201, 02	MA142K	DIODE	2	
D3302, 03	MA142K	DIODE	2	
D3305	MA728	DIODE	1	
D3501	MA142K	DIODE	1	
D3601	MA142K	DIODE	1	
D3801-05	MA142K	DIODE	5	
D3806	MA28W-A	DIODE	1	
FL3101, 02	VLF0941C223	FILTER	2	
FL3201	VLF1015	FILTER	1	
FL3301	VLF1353	FILTER	1	
FL3401, 02	VLF1355	FILTER	2	
FL3501, 02	VLF0941C223	FILTER	2	
FL3701	VLF1293	FILTER	1	
FL3702	VLF1326	FILTER	1	
FL3901, 02	VLF1428	FILTER	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3201	CXD2024AQ	IC	1		Q3201	2SD1819A-R	TRANSISTOR	1	
IC3202	XC62AP5002P	IC	1		Q3202	2SB1218A-R	TRANSISTOR	1	
IC3203	TC7W04FU	IC	1		Q3203, 04	2SD1819A-R	TRANSISTOR	2	
IC3204	EL4089CS	IC	1		Q3205	2SB1218A-R	TRANSISTOR	1	
IC3205	EL4583CS	IC	1		Q3206	2SD1819A-R	TRANSISTOR	1	
IC3208	MC14053BD	IC	1		Q3207	2SB1218A-R	TRANSISTOR	1	
IC3301	EL4583CS	IC	1		Q3208	XN4601	TRANSISTOR-RESISTOR	1	
IC3302	XC62AP5002P	IC	1		Q3209	2SD1819A-R	TRANSISTOR	1	
IC3303, 04	MC14053BD	IC	2		Q3301, 02	2SD1819A-R	TRANSISTOR	2	
IC3401, 02	NJM1496V	IC	2		Q3303	2SB1218A-R	TRANSISTOR	1	
IC3403	NJM78L09UA	IC	1		Q3304	2SA1532-B	TRANSISTOR	1	
IC3404	XC62DN5002P	IC	1		Q3305, 06	2SD1819A-R	TRANSISTOR	2	
IC3405	XC62AP5002P	IC	1		Q3401, 02	2SD1819A-R	TRANSISTOR	2	
IC3501	UPD65013BC16	IC	1		Q3403	2SA1532-B	TRANSISTOR	1	
IC3502	SN74LS221NS	IC	1		Q3404	2SD1819A-R	TRANSISTOR	1	
IC3503	TC7W14FU	IC	1		Q3405	2SA1532-B	TRANSISTOR	1	
IC3504	TC7W04FU	IC	1		Q3406	2SD1819A-R	TRANSISTOR	1	
IC3505	NJM319V	IC	1		Q3501-03	2SD1819A-R	TRANSISTOR	3	
IC3506	XC62AP5002P	IC	1		Q3701	2SD1819A-R	TRANSISTOR	1	
IC3507	NJM082BV	IC	1		Q3702	2SB1218A-R	TRANSISTOR	1	
IC3508	MC14053BD	IC	1		Q3703, 04	2SD1819A-R	TRANSISTOR	2	
IC3509	TC7S00FU	IC	1		Q3705	2SB1218A-R	TRANSISTOR	1	
IC3510	NJM064V	IC	1		Q3706-09	2SD1819A-R	TRANSISTOR	4	
IC3511	TC7W04FU	IC	1		Q3710, 11	XN4601	TRANSISTOR-RESISTOR	2	
IC3601	MN53015VZW	IC	1		Q3712-14	2SD1819A-R	TRANSISTOR	3	
IC3602	TC4W53FU	IC	1		Q3801	2SD1819A-R	TRANSISTOR	1	
IC3603	TVHCT244FS	IC	1		Q3802	2SB1218A-R	TRANSISTOR	1	
IC3701	MN657021F	IC	1		Q3803-08	2SD1819A-R	TRANSISTOR	6	
IC3702, 03	TC7SH08FU	IC	2		Q3901, 02	2SD1819A-R	TRANSISTOR	2	
IC3704	XC62AP3002P	IC	1		Q3951	2SK198-R	TRANSISTOR	1	
IC3705	XC62AP5002P	IC	1						
IC3706	XC62DN5002P	IC	1		QR3301	XN4601	TRANSISTOR-RESISTOR	1	
IC3707	AD826AR	IC	1		QR3304	XN4601	TRANSISTOR-RESISTOR	1	
IC3708	AD817AR	IC	1						
IC3709	TC7S04FU	IC	1		R3201	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
IC3710	MC14053BD	IC	1		R3202	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
IC3712	TC7S04FU	IC	1		R3203	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
IC3713	NJM2534V	IC	1		R3204	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
IC3714	TC4W53FU	IC	1		R3205	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3801	XC62AP5002P	IC	1		R3206	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
IC3802	AN3296S	IC	1		R3207	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
IC3803	M35010-001SP	IC	1		R3208	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
IC3804	MN1382-P	IC	1		R3209	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3901	CXA1229M	IC	1		R3210	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
IC3902	XC62AP5002P	IC	1		R3211, 12	ERJ3RBD102	M.RESISTOR CH 1/10W 1K	2	
IC3903	AD826AR	IC	1		R3214	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
IC3904	TC4W53FU	IC	1		R3215	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
IC3951	NJM082BM	IC	1		R3216	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
					R3217	ERJ3RBD331	M.RESISTOR CH 3W 330	1	
					R3218	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
L3201-04	VLQ0319K101	COIL	100UH	4	R3219	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
L3207	VLQ0319K101	COIL	100UH	1	R3220	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
L3208	VLQ0163J180	COIL	18UH	1	R3221	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
L3209	VLQ0163J220	COIL	22UH	1	R3222	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
L3210	VLQ0319K101	COIL	100UH	1	R3223	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
L3211	VLQ0163J180	COIL	18UH	1	R3224	ERJ6RED684	M.RESISTOR CH 1/10W 680K	1	
L3212	VLQ0163J220	COIL	22UH	1	R3226	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
L3301	VLQ0163J221	COIL	220UH	1	R3230, 31	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
L3302, 03	VLQ0319K101	COIL	100UH	2	R3233	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
L3401-04	VLQ0319K101	COIL	100UH	4	R3234-36	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	3	
L3501-03	VLQ0319K101	COIL	100UH	3	R3238	ERJ3RBD473	M.RESISTOR CH 3W 47K	1	
L3504	VLQ0163J470	COIL	47UH	1	R3239	ERJ3RBD183	M.RESISTOR CH 3W 18K	1	
L3505, 06	VLQ0319K101	COIL	100UH	2	R3240	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
L3701	VLQ0163J390	COIL	39UH	1	R3241	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
L3702	VLQ0319K101	COIL	100UH	1	R3244, 45	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
L3703	VLQ0464K6R8	COIL	6.8UH	1	R3247	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
L3704	VLQ0163J270	COIL	27UH	1	R3248	ERJ3RBD201	M.RESISTOR CH 3W 200	1	
L3706, 07	VLQ0319K101	COIL	100UH	2	R3251	ERJ3RBD201	M.RESISTOR CH 3W 200	1	
L3801	VLQ0319K101	COIL	100UH	1	R3253, 54	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
L3802	VLQ0163J120	COIL	12UH	1	R3256	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
L3803-06	VLQ0319K101	COIL	100UH	4	R3257	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
L3901, 02	VLQ0163J120	COIL	12UH	2	R3258	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
					R3259	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
P3101	VJP3657	CONNECTOR (MALE)	1		R3260	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
					R3261	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3262	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3263	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3264	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3265	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3266	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3269	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3275	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3276	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3279	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3280	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3281	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3301	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3302	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3303	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3305	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3306	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3308	ERJ6RED684	M.RESISTOR CH 1/10W 680K	1	
R3309	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3310	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3311	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3312	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3314	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3315	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3316	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3317	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3318, 19	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R3321	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3323	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3324	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3332	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3333	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3334	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3335	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3336	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3337	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3339	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3340	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3341	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3342	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3343	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3355	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3356	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R3401	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3402	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3403	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3404, 05	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R3406	ERJ3RBD682	M.RESISTOR CH 3W 6.8K	1	
R3407	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3408	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3410, 11	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3412	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3413, 14	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R3415	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3416	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3417	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3418	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3419	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3420	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3421	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3422	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3423	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3424	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3425, 26	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R3427	ERJ3RBD682	M.RESISTOR CH 3W 6.8K	1	
R3428	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3429	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3431, 32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3433	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3434, 35	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R3436	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3437	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3438	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3439	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3440	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3441	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3442	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3501	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3502	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3504	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3506	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3507	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3509	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3510, 11	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R3515	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3519-21	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	3	
R3523	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3524	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3525	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3526	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3527	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3528	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3529	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3530	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3531	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3532, 33	ERJ3RBD222	M.RESISTOR CH 3W 2.2K	2	
R3536-38	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	3	
R3539	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3540	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3541, 42	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3543	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3544	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3545, 46	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3547, 48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3549	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3550	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3551	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3552	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3553	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3556	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3558	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R3559-61	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3562	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3563	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3566	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R3567	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3568	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3570	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3601	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3604	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3606, 07	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3609	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3610, 11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3612	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3613-17	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	5	
R3619	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3701, 02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3703	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R3704	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3706	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3707, 08	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R3712	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3713	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3714	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3715	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3716, 17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3718	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3719	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3720	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3721, 22	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	2	
R3723	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3724	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3725	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3726	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3727	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3728	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3729	ERJ3RBD102	M.RESISTOR CH 1/10W 1K	1	
R3730, 31	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2	
R3732, 33	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3734	ERJ3RBD102	M. RESISTOR CH 1/10W 1K	1	
R3735, 36	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1.5K	2	
R3737	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3738	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3739	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R3740	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3741	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3742	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1	
R3743	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R3744	ERJ3RBD222	M. RESISTOR CH 3W 2.2K	1	
R3745, 46	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R3747, 48	ERJ3RBD102	M. RESISTOR CH 1/10W 1K	2	
R3750	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3751	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R3752	ERJ3RBD222	M. RESISTOR CH 3W 2.2K	1	
R3753-56	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	4	
R3757	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3758	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R3759	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3760	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3761	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1	
R3762	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3763, 64	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R3765-67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R3768, 69	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R3770	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3773	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3774	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R3775	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R3776	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3777	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R3778, 79	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R3780	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3781, 82	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R3783, 84	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R3785	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3786	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3802	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1	
R3803	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3804	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R3805, 06	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R3807	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3808	ERJ3GEYJ6473	M. RESISTOR CH 1/16W 47K	1	
R3809	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3810	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3811	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1	
R3812	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3813	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R3814	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R3815	ERJ3GEYJ753	M. RESISTOR CH 1/16W 75K	1	
R3816	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3817	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3818	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3819	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R3820	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3821	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3822	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3823	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3824	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1	
R3825	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3826	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3827	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3828	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R3829	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3830	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3831	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3832-34	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R3837	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1	
R3839	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3911	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3912-16	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	5	
R3917	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3918	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R3920	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3921	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3922	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R3923	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3925	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3951	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3952	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3953	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3954	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R3955	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3957	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3958	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3959	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3960	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
TG3201	EYF6CU	TEST POINT	1	
TG3401	EYF6CU	TEST POINT	1	
TG3501	EYF6CU	TEST POINT	1	
TG3701	EYF6CU	TEST POINT	1	
TP3201-03	EYF6CU	TEST POINT	3	
TP3301,02	EYF6CU	TEST POINT	2	
TP3401,02	EYF6CU	TEST POINT	2	
TP3501-09	EYF6CU	TEST POINT	9	
TP3601-03	EYF6CU	TEST POINT	3	
TP3701-05	EYF6CU	TEST POINT	5	
VC3801	ECRJA030E12	TRIMMER	1	
VR3202,03	EVM7JGA00B13	V. RESISTOR 1K	2	
VR3401,02	EVM7JGA00B13	V. RESISTOR 1K	2	
VR3501	EVM7JGA00B14	V. RESISTOR 10K	1	
VR3502,03	EVM7JGA00B13	V. RESISTOR 1K	2	
VR3504	VRV0161B502	V. RESISTOR 5K	1	
VR3505	EVM7JGA00B53	V. RESISTOR 5K	1	
VR3701	VRV0161B502	V. RESISTOR 5K	1	
VR3702,03	VRV0161B202	V. RESISTOR 2K	2	
VR3704	EVM7JGA00B52	V. RESISTOR 500	1	
VR3705	EVM7JGA00B13	V. RESISTOR 1K	1	
VR3706	EVM7JGA00BE2	V. RESISTOR 220	1	
VR3707	EVM7JGA00B13	V. RESISTOR 1K	1	
VR3709,10	EVM7JGA00B53	V. RESISTOR 5K	2	
VR3901-03	EVM7JGA00B13	V. RESISTOR 1K	3	
X3501	VSX0338	CRYSTAL OSCILLATOR	1	
X3801	VSX0365	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	XYN2+J6	SCREW	2	
	■ VEP03D94C	DIGITAL P.C. BOARD	1 (RTL)	
	■ VEP00Z87A	DIGITAL SUB P.C. BOARD	1 (RTL) FOR VEP03D94C	
BZ3101-04	VLP0155	COIL	4	
BZ3201	VLP0155	COIL	1	
BZ3305	VLP0155	COIL	1	
BZ3601	VLP0155	COIL	1	
C3001	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3002	VCK0151	C. CAPACITOR	1	
C3003,04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3005	ECEV06V4700	E. CAPACITOR CH 4V 47U	1	
C3006,07	VCK0152	C. CAPACITOR	2	
C3008	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3009	VCK0152	C. CAPACITOR	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3010	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3009	XC62AP2302P	IC	1	
C3015-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		IC3010	TVHC244FT	IC	1	
C3021	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3014	TVHC244FT	IC	1	
C3022	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3015	TC7SH04FU	IC	1	
C3102, 03	VCK0151	C. CAPACITOR	2		IC3101	M65401FP	IC	1	
C3104, 05	ECEV1HV2R20	E. CAPACITOR CH 50V 2.2U	2		IC3102	MN673711	IC	1	
C3106, 07	ECEV1CV1000	E. CAPACITOR CH 16V 10U	2		IC3103	M52660FP	IC	1	
C3108	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3104	TVHC125FT	IC	1	
C3109	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1		IC3105	TC7W04FU	IC	1	
C3110	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		IC3106	TC4W53FU	IC	1	
C3111	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3107-10	TVHC245FT	IC	4	
C3112	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		IC3111	TVHC157FT	IC	1	
C3113	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		IC3112	TC7SH04FU	IC	1	
C3114	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		IC3113	TVHC573FT	IC	1	
C3115, 16	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	2		IC3201	L7A1433	IC	1	
C3117	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		IC3202	MB81V4260S7	IC	1	
C3118	VCK0151	C. CAPACITOR	1		IC3203	TC7S66F	IC	1	
C3119	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3205	TC7SH08FU	IC	1	
C3120	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1		IC3206	TVHC74FT	IC	1	
C3121, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		IC3301	L7A1434	IC	1	
C3123	VCK0151	C. CAPACITOR	1		IC3302	TVHC244FT	IC	1	
C3124, 25	VCK0152	C. CAPACITOR	2		IC3303	MC10H125M	IC	1	
C3126-32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7		IC3304	MC10H124M	IC	1	
C3133	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3305	XC62DN5002P	IC	1	
C3134	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3306	TVHC153FT	IC	1	
C3201	VCK0152	C. CAPACITOR	1		IC3307, 08	TVHC74FT	IC	2	
C3205	VCK0151	C. CAPACITOR	1		IC3309	TC7SH04FU	IC	1	
C3208	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3310	TVHC157FT	IC	1	
C3209	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3311	TC7SH08FU	IC	1	
C3210, 11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		IC3401	UPD65868D022	IC	1	
C3301	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3402	TVHC245FT	IC	1	
C3302	VCK0152	C. CAPACITOR	1		IC3403	TC7SH32FU	IC	1	
C3303, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		IC3404	TC7SH04FU	IC	1	
C3305, 06	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2		IC3405	TVHC244FT	IC	1	
C3307-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6		IC3406	TVHC157FT	IC	1	
C3313	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1		IC3407	TVHC244FT	IC	1	
C3314	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1		IC3408	TC7S66F	IC	1	
C3315-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC3409	TC7S04F	IC	1	
C3320-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		IC3501	SN74S1051NS	IC	1	
C3325	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3502, 03	TVHCT541FS	IC	2	
C3401-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10		IC3505	74AC139SJ	IC	1	
C3501-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	11		IC3506	SN74S1051NS	IC	1	
C3512	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3507	HD151015SS	IC	1	
C3513	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3508	UPD71055GB	IC	1	
C3601	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3509	TVHC244FT	IC	1	
C3602, 03	ECUX1H681JV	C. CAPACITOR CH 50V 680P	2		IC3510	TC7S04F	IC	1	
C3604	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3601	M37709M4L164	IC	1	
C3605-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		IC3602	S80727ANDQ	IC	1	
C3608	ECEV0JV4700	E. CAPACITOR CH 6.3V 47U	1		IC3603, 04	TC7S66F	IC	2	
C3609	VCK0152	C. CAPACITOR	1		IC3606	TVHC244FT	IC	1	
C3610	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3607	TC74HC123AF	IC	1	
C3612	VCK0152	C. CAPACITOR	1		IC3608	TC7SH08FU	IC	1	
C3614	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3701	T160G11-1233	IC	1	
C3615	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		IC3702	TC7SH08FU	IC	1	
C3616	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1		IC3703	TVHC08FT	IC	1	
C3617	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC3801	UPD65843G026	IC	1	
C3618	ECUX1C104J	P. CAPACITOR 16V 0.1U	1		IC3802	TVHC574FT	IC	1	
C3619	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1						
C3620	ECUX1C104J	P. CAPACITOR 16V 0.1U	1						
C3621	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		L3001	VLP0145	COIL	1	
C3701	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		L3101	VLP0145	COIL	1	
C3702	VCK0152	C. CAPACITOR	1		L3102, 03	VL00464K6R8	COIL 6.8UH	2	
C3704	ECEV1HV2R20	E. CAPACITOR CH 50V 2.2U	1		L3501	VLP0145	COIL	1	
C3801-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		L3601	VL00464K6R8	COIL 6.8UH	1	
					L3602	VL00319K470	COIL 47UH	1	
					L3603	VL00464K6R8	COIL 6.8UH	1	
					L3701	VL00464K6R8	COIL 6.8UH	1	
D3601-03	MA715	DIODE	3						
D3604, 05	MA152K	DIODE	2		P3901	VJP3657	CONNECTOR (MALE)	1	
FL3101	VLF1118	FILTER	1		Q3601	2SB709A-R	TRANSISTOR	1	
FL3102	VLF1117	FILTER	1						
FL3103	VLF1116	FILTER	1		QR3601	UN2214	TRANSISTOR-RESISTOR	1	
IC3001	MN67372A2	IC	1						
IC3002	MN4706F	IC	1		R3002-05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
IC3003-08	TVHC244FT	IC	6		R3006-24	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	19	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3025-32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R3033-40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	8	
R3041	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3045	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3046-53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	8	
R3054-61	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R3062	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3063-65	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3066	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3070	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3071	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3102	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3103	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3104	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3105-09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R3110	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3111	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3112	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3113	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3114	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3115,16	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R3117	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3119	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3124-32	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	9	
R3133,34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3135,36	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3137	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3138,39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3140-50	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	11	
R3151	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3152	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3155-63	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	9	
R3164	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3165	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3201	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3202-04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3303,04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3305-08	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R3309	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3310	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3313	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3314-17	ERJ3GEYG101	M.RESISTOR CH 1/10W 100	4	
R3318	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3319,20	ERJ3GEYG101	M.RESISTOR CH 1/10W 100	2	
R3321-24	ERJ3GEYJ471	M.RESISTOR CH 1/10W 470	4	
R3325,26	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3327,28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3329	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3331	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3401-03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3404-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3407	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3408	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3409	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3410-14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R3415	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3424-32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	9	
R3433	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3501	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3502	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3503	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3504-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3507-14	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	8	
R3515	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3516	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3517	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3522	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3524-39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	16	
R3601,02	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3603,04	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3605-07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3608-10	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	3	
R3611-13	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	3	
R3614	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3615	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3616	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3617	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3618	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3619	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3621	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3622,23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3624,25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3626-30	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	5	
R3632	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3634	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3636	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3637	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3639,40	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3641	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3642	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3645	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3646,47	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R3648,49	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R3650	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3651	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3652	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3653,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3659-61	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	3	
R3662	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3663-67	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R3669	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R3670	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3671	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R3672	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3701	ERJ3RED270	M.RESISTOR CH 3W 27	1	
R3702	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3704,05	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	2	
R3706	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3712-21	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	10	
R3801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3802	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3803	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3804	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3805,06	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW3101	VSS0367-08TB	SWITCH	1	
SW3102	VSS0367-04TB	SWITCH	1	
TG3001	EYF6CU	TEST POINT	1	
TG3301	EYF6CU	TEST POINT	1	
TH3102	VRT0139J102	THERMISTOR	1	
TP3001-04	EYF6CU	TEST POINT	4	
TP3101-04	EYF6CU	TEST POINT	4	
TP3201,02	EYF6CU	TEST POINT	2	
TP3301-06	EYF6CU	TEST POINT	6	
TP3601-04	EYF6CU	TEST POINT	4	
TP3701-03	EYF6CU	TEST POINT	3	
TP3801,02	EYF6CU	TEST POINT	2	
VR3101-03	VRV0161B203	V.RESISTOR 20K	3	
X3301	VXS0645	CRYSTAL OSCILLATOR	1	
X3601	VXS0637	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	XYN2+J6	SCREW	2	
	VEP03E12B	TBC P.C. BOARD	1 (RTL)	
C3201	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3202	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3204	ECUX1H060DCV	C.CAPACITOR CH 50V 6P	1	
C3207	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3208	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3209	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3210	ECEV0JV3300	E.CAPACITOR CH6.3V 33U	1	
C3211	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3212	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3213	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3214, 15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3216	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3217, 18	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3223	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3224	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3225	ECEV0JV3300	E.CAPACITOR CH6.3V 33U	1	
C3226	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3227	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3228, 29	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3230	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3231, 32	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3233	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3238	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3239	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3240	ECEV0JV3300	E.CAPACITOR CH6.3V 33U	1	
C3241	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3242	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3243, 44	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3245	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3246	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3247, 48	ECST1CX106Z	T.CAPACITOR CH 16V 10U	2	
C3250	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3251	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3252	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3253	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3254-57	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	4	
C3301, 02	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C3303	ECEV0JV3300	E.CAPACITOR CH6.3V 33U	1	
C3304	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3305	ECEV0JV3300	E.CAPACITOR CH6.3V 33U	1	
C3306, 07	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3308	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3309	ECUX1E681JCV	C.CAPACITOR CH 50V 680P	1	
C3310	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C3311	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3313	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3314	ECUX1H060DCV	C.CAPACITOR CH 50V 6P	1	
C3315	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3316	ECEV1HN0100	E.CAPACITOR CH 50V 1U	1	
C3317	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3318	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3319	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3320	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3321, 22	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3323	ECEV1HN0100	E.CAPACITOR CH 50V 1U	1	
C3324	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3325	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3326-31	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	6	
C3344	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3345	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3346, 47	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3348	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3349, 50	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3351	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C3401-14	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	14	
C3501-10	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	10	
C3601	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3602	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3603	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3604, 05	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3606	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3607	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3608	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3609, 10	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3611	ECEV1EN3R30	E.CAPACITOR CH 25V 3.3U	1	
C3612	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3613	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3614	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3616	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3617	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3618	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3619, 20	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C3621, 22	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3624	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3626	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3627, 28	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3629	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3630	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3631	ECEV1EN3R30	E.CAPACITOR CH 25V 3.3U	1	
C3632	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3633	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3634-39	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	6	
C3640	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3641, 42	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3643	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	
C3701	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3702-10	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	9	
C3801	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3802	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3803, 04	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	2	
C3819	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3820	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3821	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3822, 23	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C3824, 25	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	2	
C3826	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3827	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C3828	ECUX1C684KBM	C.CAPACITOR CH 16V 0.68U	1	
C3829	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3830	ECUX1C684KBM	C.CAPACITOR CH 16V 0.68U	1	
C3831, 32	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3833	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3834	ECUM1H222JN	C.CAPACITOR CH 50V 2200P	1	
C3835	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3836	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C3837	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3838	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3839	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C3901	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3902	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3903	VCK0150	C.CAPACITOR	1	
C3904	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C3906	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C3907	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C3908	ECUX1E104ZV	C.CAPACITOR CH 25V 0.1U	1	
C3909	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3910	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3911	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
D3301	MA142WK	DIODE	1	
D3302	MA335-R	DIODE	1	
D3601	MA715	DIODE	1	
D3602	MA335-R	DIODE	1	
D3603, 04	MA152K	DIODE	2	
FL3101, 02	VLF0941C223	FILTER	2	
FL3301, 02	VLF0941C223	FILTER	2	
FL3303	VLQ0415	COIL	1	
FL3401	VLF0941C223	FILTER	1	
IC3201-03	CXD11760	IC	3	
IC3204, 05	XC62AP5002P	IC	2	
IC3206	AD817AR	IC	1	
IC3207	AD826AR	IC	1	
IC3208	XC62DN5002P	IC	1	
IC3301	TC7S00FU	IC	1	
IC3302	TC7S14F	IC	1	
IC3303	TVHC74FT	IC	1	
IC3304, 05	SN74LS221NS	IC	2	
IC3306	NJM082BV	IC	1	
IC3307	TC4W53FU	IC	1	
IC3308	TC7S00FU	IC	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3309	TVHC244FT	IC	1		R3215, 16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
IC3310	XC62AP5002P	IC	1		R3217, 18	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
IC3311	XC62DN5002P	IC	1		R3225	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
IC3312	TC7S04FU	IC	1		R3226	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3401	T160641-1437	IC	1		R3228	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
IC3402	UPD42280G3	IC	1		R3230	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3403	74F541SJ	IC	1		R3232	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
IC3404	UPD42280G3	IC	1		R3233, 34	ERJ3GEY6682	M.RESISTOR CH 1/16W 6.8K	2	
IC3405	74F541SJ	IC	1		R3235	VRE006607103	M.RESISTOR CH 1/10W 10K	1	
IC3406	TC7W04FU	IC	1		R3236	ERJ3GEY6682	M.RESISTOR CH 1/16W 6.8K	1	
IC3407	TC7W125FU	IC	1		R3239	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
IC3501	UPD65841G025	IC	1		R3246	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
IC3502	TC4W53FU	IC	1		R3247	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3503	T74VHCT244F	IC	1		R3249	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
IC3601	T74VHCT244F	IC	1		R3251	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3602	MC74HC125AF	IC	1		R3252	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
IC3603	TC7S66F	IC	1		R3254-56	ERJ3GEY6682	M.RESISTOR CH 1/16W 6.8K	3	
IC3604	NJM082BV	IC	1		R3257	VRE006607103	M.RESISTOR CH 1/10W 10K	1	
IC3605	TC7SH00FU	IC	1		R3260	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
IC3607	NJM082BV	IC	1		R3272	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
IC3608	TC7SH08FU	IC	1		R3274	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
IC3609	NJM79L09UA	IC	1		R3275	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
IC3610	NJM78L09UA	IC	1		R3276	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
IC3701	UPD65840G024	IC	1		R3277	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3702	TC4W53FU	IC	1		R3278, 79	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
IC3801	TC7SH08FU	IC	1		R3280	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
IC3802	TVHC74FT	IC	1		R3281	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3803, 04	TLX244FT	IC	2		R3284	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
IC3805	TC7SH08FU	IC	1		R3285, 86	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
IC3806	T163645-1017	IC	1		R3287	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3807	TC7SH04FU	IC	1		R3288, 89	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
IC3808	M52660FP	IC	1		R3290	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
IC3809	TC7SH04FU	IC	1		R3291	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
IC3901	UPC2384GA	IC	1		R3293	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
L3202	VL00319K101	COIL	100UH	1	R3301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
L3204	VL00319K101	COIL	100UH	1	R3302	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
L3206	VL00319K101	COIL	100UH	1	R3303	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
L3303	VL00163J3R3	COIL	3.3UH	1	R3304	ERJ3GEY6682	M.RESISTOR CH 1/16W 6.8K	1	
L3401-16	VLP0155	COIL		16	R3305	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
L3601-05	VL00319K470	COIL	47UH	5	R3306, 07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
L3606	VL00163J3R9	COIL	3.9UH	1	R3308, 09	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
L3607, 08	VL00319K470	COIL	47UH	2	R3312	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
L3801-03	ERJ3GEYOR00	M.RESISTOR CH 1/16W	0	3	R3313, 14	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
L3804	VLP0155	COIL		1	R3315	ERJ3RBD682	M.RESISTOR CH 3W 6.8K	1	
L3805	VLP0145	COIL		1	R3320	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
L3806	VL00319M6R8	COIL	6.8UH	1	R3321	ERJ3GEY6682	M.RESISTOR CH 1/16W 6.8K	1	
L3807	VLP0145	COIL		1	R3322	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
L3808	VL00319M6R8	COIL	6.8UH	1	R3323	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
L3809	VLP0145	COIL		1	R3325	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
L3810	VL00319M6R8	COIL	6.8UH	1	R3327	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
L3811	VLP0145	COIL		1	R3328	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
L3812	VL00319M6R8	COIL	6.8UH	1	R3329	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
L3901	VL00464K6R8	COIL	6.8UH	1	R3334, 35	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
L3902	ELJNA1R5JF	COIL	1.5UH	1	R3336	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
L3903	VL00319K101	COIL	100UH	1	R3337	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
P3101	VJP3657	CONNECTOR (MALE)		1	R3339	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
Q3201	2SK198-R	TRANSISTOR		1	R3341	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
Q3206	2SD1819A-R	TRANSISTOR		1	R3342	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
Q3208	2SA1532-B	TRANSISTOR		1	R3343, 44	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
Q3211	2SA1532-B	TRANSISTOR		1	R3409	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
Q3301	2SC3938-R	TRANSISTOR		1	R3411	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
Q3302, 03	2SA1532-B	TRANSISTOR		2	R3413	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
Q3304	2SC3938-R	TRANSISTOR		1	R3414-21	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	8	
Q3601	2SC2295-B	TRANSISTOR		1	R3422	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
Q3801	XN4601	TRANSISTOR-RESISTOR		1	R3426-28	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	3	
R3207	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1	R3429-31	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3208	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47		1	R3432-35	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	4	
R3210	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1	R3436	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3212	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47		1	R3437-39	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	3	
R3213	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75		1	R3441	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3214	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		1	R3442, 43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
					R3444	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
					R3445	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
					R3446-52	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	7	
					R3453	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3501	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3502	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3503	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3504,05	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R3506-12	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	7	
R3513	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3514	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3517	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3601	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3602,03	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R3604	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3606	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3607	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3608	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3609	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3610	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3611	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3613-15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3616	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3617	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3618	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3619	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3620	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R3621	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3622	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3623	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3624	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3625	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3626	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3627	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3628	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3702	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3704	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3706	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3708	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3709	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R3711	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3712	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3715,16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3719	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3721	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3802,03	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R3804-08	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
R3810	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3815-18	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R3819	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3820	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3821,22	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R3823	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R3824,25	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R3826	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3827	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3828	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3829-31	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	3	
R3832	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3833,34	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3835,36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3837	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3838	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3839	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3840	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3841	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3842,43	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R3901,02	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R3905	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3906	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3907-09	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	3	
R3910	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3911,12	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
TG3201	EYF6CU	TEST POINT	1	
TG3601	EYF6CU	TEST POINT	1	
TP3201-03	EYF6CU	TEST POINT	3	

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C4128, 29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4130	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C4131	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C4132	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C4133, 34	ECEVOJV2200	E. CAPACITOR CH6. 3V 22U	2	
C4135	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C4136, 37	ECUX1E104ZFV	C. CAPACITOR CH 16V 47U	2	
C4138	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C4139	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C4140	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C4141, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4143	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1	
C4144, 45	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4146	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1	
C4147	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4201-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C4208	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	
C4210, 11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4212-14	ECEV1CV1000	E. CAPACITOR CH 16V 10U	3	
C4215, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4217, 18	ECEV1CV1000	E. CAPACITOR CH 16V 10U	2	
C4219	ECEV1HV0R10	E. CAPACITOR CH 50V 0.1U	1	
C4220-22	ECEV1CV1000	E. CAPACITOR CH 16V 10U	3	
C4223	ECEV1HV0R10	E. CAPACITOR CH 50V 0.1U	1	
C4224	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1	
C4225, 26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4311	ECST1CD476Z	T. CAPACITOR CH 16V 47U	1	
C4312	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C4313	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C4314	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C4315, 16	ECHS1682JZ	P. CAPACITOR 6800P	2	
C4317	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C4318	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C4319	ECEVOJN1000	E. CAPACITOR CH6. 3V 10U	1	
C4320	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C4321	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C4322	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1	
C4323	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	1	
C4325	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4326	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C4327	VCC0030	C. CAPACITOR	1	
C4328	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1	
C4329	ECEVOJN1000	E. CAPACITOR CH6. 3V 10U	1	
C4333	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4401	ECEV1CN1000	E. CAPACITOR CH 16V 10U	1	
C4402, 03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4404	ECU1H683JB	P. CAPACITOR 50V 0.068U	1	
C4405	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C4406	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4407	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	
C4408	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1	
C4409	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4410	ECEVOJV4700	E. CAPACITOR CH6. 3V 47U	1	
C4411	ECST1VY684Z	T. CAPACITOR CH 35V 0.68U	1	
C4412	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C4413	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4414	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C4415, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4417, 18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C4419, 20	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2	
C4601, 02	ECEVOJN4700	E. CAPACITOR CH6. 3V 47U	2	
C4603, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4605	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C4606, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4608, 09	ECEVOJN1000	E. CAPACITOR CH6. 3V 10U	2	
C4610	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	
C4611	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4612	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C4613	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4614, 15	ECEVOJN1000	E. CAPACITOR CH6. 3V 10U	2	
C4616	ECEVOJV2200	E. CAPACITOR CH6. 3V 22U	1	
C4617	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	
C4618	ECEVOJV2200	E. CAPACITOR CH6. 3V 22U	1	
D4101, 02	MA714	DIODE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D4201, 02	MA142K	DIODE	2	
D4203	MA142WA	DIODE	1	
D4204	MA142WK	DIODE	1	
D4205	MA147	DIODE	1	
D4302	MA142K	DIODE	1	
D4601	MA142WA	DIODE	1	
D4602, 03	MA142K	DIODE	2	
FL4301	EIR70F012B	TRANSFORMER	1	
FL4401	VLF1069	FILTER	1	
IC4001	M51132L	IC	1	
IC4002	TA75W558FU	IC	1	
IC4003	AN1358S	IC	1	
IC4004, 05	TA75W558FU	IC	2	
IC4006	XC62AP5002M	IC	1	
IC4007	NJM78L09UA	IC	1	
IC4008	NJM79L09UA	IC	1	
IC4009	XC62DN5002P	IC	1	
IC4010-12	TA75W558FU	IC	3	
IC4101	AK4503VF	IC	1	
IC4102	NJM062V	IC	1	
IC4103	XC62AP3002P	IC	1	
IC4104	TC7W125FU	IC	1	
IC4105, 06	NJM062V	IC	2	
IC4201	MC14052BF	IC	1	
IC4202-05	TA75W558FU	IC	4	
IC4206	BA6138F	IC	1	
IC4207	MC14053BD	IC	1	
IC4301	TA75W558FU	IC	1	
IC4401	CXA1102M	IC	1	
IC4402	MC14053BD	IC	1	
IC4403	NJM062V	IC	1	
IC4601	MC14052BF	IC	1	
IC4602, 03	NJM4580ED	IC	2	
L4101, 02	VL00319K101	COIL 100UH	2	
L4303	VL00423J472	COIL 470UH	1	
P4501	VJP3657	CONNECTOR (MALE)	1	
P4502	VJP3125B009	CONNECTOR (MALE)	1	
Q4001	2SD602A-R	TRANSISTOR	1	
Q4201-04	2SD1979	TRANSISTOR	4	
Q4205, 06	2SB1219A-R	TRANSISTOR	2	
Q4207, 08	2SD1979	TRANSISTOR	2	
Q4209	2SB1219A-R	TRANSISTOR	1	
Q4210, 11	2SD1979	TRANSISTOR	2	
Q4304	2SB779-R	TRANSISTOR	1	
Q4305	2SD1819A-R	TRANSISTOR	1	
Q4306	2SD874-R	TRANSISTOR	1	
Q4307-09	2SD1979	TRANSISTOR	3	
Q4310	2SB1220-R	TRANSISTOR	1	
Q4311, 12	2SD1821-R	TRANSISTOR	2	
Q4601	2SD1979	TRANSISTOR	1	
Q4603	2SD1979	TRANSISTOR	1	
Q4604-06	2SD1819A-R	TRANSISTOR	3	
Q4607	2SD1979	TRANSISTOR	1	
Q4609	2SD1979	TRANSISTOR	1	
Q4610-12	2SD1819A-R	TRANSISTOR	3	
QR4201-03	UN5213	TRANSISTOR-RESISTOR	3	
QR4302	UN5113	TRANSISTOR-RESISTOR	1	
QR4303	UN5213	TRANSISTOR-RESISTOR	1	
QR4304	UN5113	TRANSISTOR-RESISTOR	1	
QR4305	UN5213	TRANSISTOR-RESISTOR	1	
QR4401	UN5113	TRANSISTOR-RESISTOR	1	
QR4402	UN5213	TRANSISTOR-RESISTOR	1	
QR4403	UN5113	TRANSISTOR-RESISTOR	1	
QR4404	UN5213	TRANSISTOR-RESISTOR	1	
QR4601-03	UN5113	TRANSISTOR-RESISTOR	3	
QR4604-08	UN5213	TRANSISTOR-RESISTOR	5	
R4001	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4002	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4003	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4004	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4005, 06	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R4007, 08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4009, 10	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4011, 12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4013	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4014	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4015	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4016	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4017	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4018, 19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4020	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4021	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4023	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4101	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4102, 03	ERJ3RBD153	M.RESISTOR CH 3W 15K	2	
R4104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4105	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4106	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4107	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4108, 09	ERJ3RBD472	M.RESISTOR CH 1/10W 4.7K	2	
R4110	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4111, 12	ERJ3RBD153	M.RESISTOR CH 3W 15K	2	
R4113, 14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4115, 16	ERJ3RBD472	M.RESISTOR CH 1/10W 4.7K	2	
R4119, 20	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R4121, 22	ERJ3RBD103	M.RESISTOR CH 3W 10K	2	
R4123, 24	ERJ3RBD153	M.RESISTOR CH 3W 15K	2	
R4125-29	ERJ3RBD103	M.RESISTOR CH 3W 10K	5	
R4130, 31	ERJ3RBD153	M.RESISTOR CH 3W 15K	2	
R4132-34	ERJ3RBD103	M.RESISTOR CH 3W 10K	3	
R4135-37	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	3	
R4201	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4202, 03	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4204	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1	
R4205	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4206	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1	
R4207	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4208	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4209	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4210	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4211	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4212	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4214	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4215	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R4216	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4217	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4218	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R4219	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4220, 21	ERJ3GEYJ242	M.RESISTOR CH 1/16W 2.4K	2	
R4224, 25	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4226	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4227	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4228	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4229	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4230	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4231, 32	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R4233	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4234	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4235	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4236	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4237	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4238	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4241, 42	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4307	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4308	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4309	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4310	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4311	ERJ8GICYJ1R0	M.RESISTOR CH 1/8W	1	
R4312	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4313	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4314	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4318	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4319, 20	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4321	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4322	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4323	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4324	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4325	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4326	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4327	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4328	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4329	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4332	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4333	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4334	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4335	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4336	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4337	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4338	ERJ6GEYJ201	M.RESISTOR CH 1/10W 200	1	
R4401	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4402	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4403	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4404	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4405	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4406	ERJ3RBD433	M.RESISTOR CH 3W 43K	1	
R4407	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4408, 09	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4410	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4411	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4412	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4413	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4414	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4415	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4416	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4418	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4419	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4601-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R4604, 05	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R4606, 07	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4608	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4610, 11	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R4612, 13	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4614	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R4616	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4617	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4620	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4621	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4622	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4623	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4624	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4625	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4626	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4627	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4628, 29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4630	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4631	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4632	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	1	
R4633	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4634, 35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4636	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4639	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4640	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4641	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4642	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4643	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4644	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4645	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4646	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4647, 48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4649	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4650	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	1	
R4651	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4652	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4653	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
SW4601	VSS037002	SWITCH	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
T4302	VLTO729	TRANSFORMER	1	
TG4101	EYF6CU	TEST POINT	1	
TP4101,02	EYF6CU	TEST POINT	2	
TP4301	EYF6CU	TEST POINT	1	
TP4302,03	VJR0098	TEST POINT	2	
TP4401	EYF6CU	TEST POINT	1	
VR4001,02	VRV0161B502	V. RESISTOR 5K	2	
VR4201,02	VRV0161B103	V. RESISTOR 10K	2	
VR4301	VRV0161B104	V. RESISTOR 10K	1	
VR4302	VRV0161B103	V. RESISTOR 10K	1	
VR4401	VRV0161B503	V. RESISTOR 50K	1	
		MISCELLANEOUS		
	XYW2+J6	SCREW	2	
	VEP05348B	RE P.C. BOARD	1 (RTL)	
C5005-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5009	ECEA1CGE101	E. CAPACITOR 16V 100U	1	
C5010-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5014-17	ECEA1CGE101	E. CAPACITOR 16V 100U	4	
C5018-21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5022	ECEA1CGE101	E. CAPACITOR 16V 100U	1	
C5023	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5026	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5027	ECUM1H104ZF	C. CAPACITOR CH 50V 0.1U	1	
C5028-30	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5032	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5034, 35	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5036	ECUM1H104ZF	C. CAPACITOR CH 50V 0.1U	1	
C5037-44	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C5045-48	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	4	
C5049-58	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C5059, 60	ECEV1EN4R70	E. CAPACITOR CH 25V 4.7U	2	
C5061, 62	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C5063, 64	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	2	
C5065, 66	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C5067, 68	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5069, 70	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C5071-74	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C5075, 76	ECEV1EN4R70	E. CAPACITOR CH 25V 4.7U	2	
C5077-82	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C5103, 04	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C5105, 06	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	2	
C5107, 08	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C5109	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C5110	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C5111	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C5112	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C5113, 14	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C5201-04	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	4	
C5205	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C5206-09	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	4	
C5210	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C5211-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C5217-20	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	4	
C5221	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5222, 23	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C5224, 25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5227	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C5251-53	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C5254	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C5255, 56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C5257-59	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3	
C5260	ECUX1C474ZFN	C. CAPACITOR CH 16V 0.47U	1	
C5262	ECUX1C684KBM	C. CAPACITOR CH 16V 0.68U	1	
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5521-26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6		IC5613	NJM064V	IC	1	
C5529	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC5751	MC74HC4066F	IC	1	
C5533-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC5752	TVHC32FT	IC	1	
C5601, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		IC5753	TCVHC04F	IC	1	
C5604	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC5754	TCVHC74F	IC	1	
C5606-25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	20		IC5755	TCVHC86F	IC	1	
C5628-30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC5757	TVHC32FT	IC	1	
C5632-40	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9		IC5758	TVHC153FT	IC	1	
C5642	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC5759	TCVHC04F	IC	1	
C5644, 45	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		IC5760	XC62AP3002P	IC	1	
C5666, 67	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		IC5761	XC62AP3202P	IC	1	
C5672-80	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9		IC5762	XC62AP3002P	IC	1	
C5751	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1		IC5763	TC7SH86FU	IC	1	
C5752	ECEV0JV1010	E. CAPACITOR CH6.3V 100U	1						
C5753, 54	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		L5001-04	VL00163J330	COIL	33UH	4
C5756	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		L5101-04	VL00163J2R2	COIL	2.2UH	4
C5757, 58	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2		L5251	VL00163J1R0	COIL	1UH	1
C5759, 60	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		L5252, 53	VL00163J101	COIL	100UH	2
C5761, 62	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2		L5254	VL00163JR68	COIL		1
C5763	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		L5255	VL00163JR39	COIL		1
C5769-74	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6		L5256	VL00163JR33	COIL	0.33UH	1
C5775	ECEA1CGE101	E. CAPACITOR 16V 100U	1		L5258, 59	VL00163JR39	COIL		2
C5776	ECEA1CGE471	E. CAPACITOR 16V 470U	1		L5260	VL00163JR68	COIL		1
C5777-79	ECEA1CGE101	E. CAPACITOR 16V 100U	3		L5401-07	VL00771R10K	COIL	1UH	7
C5780-88	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9		L5503	VL00155	COIL		1
C5790	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1						
C5791	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1		P5000	VJP3454B096	CONNECTOR (MALE)		1
C5793, 94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		P5001	VJS3900C013	CONNECTOR (FEMALE)		1
C5800-02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		P5201	VJS3900C010	CONNECTOR (FEMALE)		1
C5803	ECEA1CGE101	E. CAPACITOR 16V 100U	1						
C5804	ECEA1CGE471	E. CAPACITOR 16V 470U	1						
C5805, 06	ECEA1CGE101	E. CAPACITOR 16V 100U	2		Q5001	2SD2402	TRANSISTOR		1
C5807-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		Q5002-05	2SB710A-R	TRANSISTOR		4
					Q5006, 07	2SC3130	TRANSISTOR		2
D5001-04	MA152WK	DIODE	4		Q5008, 09	2SA1022-C	TRANSISTOR		2
D5501	MA152K	DIODE	1		Q5010, 11	2SD1979	TRANSISTOR		2
D5751	MA153	DIODE	1		Q5012, 13	2SC2954	TRANSISTOR		2
					Q5014	2SD1979	TRANSISTOR		1
FL5001-05	VLF0931	FILTER	5		Q5015	2SA1022-C	TRANSISTOR		1
FL5751-59	VLF0931	FILTER	9		Q5016	2SD1979	TRANSISTOR		1
					Q5017	2SA1022-C	TRANSISTOR		1
IC5001	MB10HL116PFF	IC	1		Q5018, 19	2SK508-B	TRANSISTOR		2
IC5002	MB10HL131PF	IC	1		Q5020, 21	2SC2954	TRANSISTOR		2
IC5003, 04	MB10HL116PFF	IC	2		Q5022, 23	2SD1979	TRANSISTOR		2
IC5005	AN78M08	IC	1		Q5024, 25	2SK508-B	TRANSISTOR		2
IC5006	AN79M08F	IC	1		Q5026, 27	2SD1979	TRANSISTOR		2
IC5201, 02	UPC5102GS030	IC	2		Q5028, 29	2SC2954	TRANSISTOR		2
IC5251	MC1495M	IC	1		Q5030, 31	2SC3130	TRANSISTOR		2
IC5252	UPC1663G	IC	1		Q5103, 04	2SB709A-R	TRANSISTOR		2
IC5253	NJM1496M	IC	1		Q5105-08	2SC3735	TRANSISTOR		4
IC5254	NJM082BM	IC	1		Q5201-03	2SB710A-R	TRANSISTOR		3
IC5255	NJM319V	IC	1		Q5204-09	2SD1979	TRANSISTOR		6
IC5401	AN3730FA	IC	1		Q5210	2SC2295-C	TRANSISTOR		1
IC5402	TC4566F	IC	1		Q5211	XN6537	TRANSISTOR-RESISTOR		1
IC5403	AN3740FAP	IC	1		Q5212	2SC2295-C	TRANSISTOR		1
IC5404	TC4566F	IC	1		Q5251	2SB710A-R	TRANSISTOR		1
IC5405	NJM064V	IC	1		Q5252	XN5531	TRANSISTOR-RESISTOR		1
IC5406	NJM084M	IC	1		Q5253	2SB710A-R	TRANSISTOR		1
IC5407	NJM082BV	IC	1		Q5254, 55	2SK508K512	TRANSISTOR		2
IC5501	UPC1663G	IC	1		Q5256	2SB710A-R	TRANSISTOR		1
IC5502	AD9057BRS	IC	1		Q5257	XN5531	TRANSISTOR-RESISTOR		1
IC5503	T74LCX244F	IC	1		Q5258	2SB710A-R	TRANSISTOR		1
IC5507	S80727ANDQ	IC	1		Q5259-62	2SD1979	TRANSISTOR		4
IC5508	TC6326AF	IC	1		Q5263, 64	2SC3130	TRANSISTOR		2
IC5509	NJM084M	IC	1		Q5265	XN5531	TRANSISTOR-RESISTOR		1
IC5510	TVHC32FT	IC	1		Q5266, 67	2SC3130	TRANSISTOR		2
IC5512	MC10H124M	IC	1		Q5401	XN5531	TRANSISTOR-RESISTOR		1
IC5601	TCVHC86F	IC	1		Q5402, 03	2SC3130	TRANSISTOR		2
IC5602	M62370GP	IC	1		Q5404	XN5531	TRANSISTOR-RESISTOR		1
IC5604	NJM064V	IC	1		Q5601	2SA1022-C	TRANSISTOR		1
IC5605	TCVHC04F	IC	1		Q5602	2SB710A-R	TRANSISTOR		1
IC5606	TVHC32FT	IC	1		Q5751	2SB709A-R	TRANSISTOR		1
IC5607-10	MC14053BF	IC	4		Q5752	2SD601A-R	TRANSISTOR		1
IC5611	NJM064V	IC	1		Q5753, 54	2SA1022-C	TRANSISTOR		2
IC5612	NJM062M	IC	1						
					OR5001	UN5215	TRANSISTOR-RESISTOR		1

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR5002	UN5213	TRANSISTOR-RESISTOR	1	
QR5003	UN5114	TRANSISTOR-RESISTOR	1	
QR5004-06	UN5213	TRANSISTOR-RESISTOR	3	
QR5101,02	UN5215	TRANSISTOR-RESISTOR	2	
QR5751,52	UN2215-R	TRANSISTOR-RESISTOR	2	
R5001,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5003,04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5005	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5006	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5007	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5008	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5009-12	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	4	
R5013	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5014,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5017	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5018,19	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	2	
R5020,21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5022,23	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5024	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5026,27	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5028,29	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	2	
R5030	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5031,32	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	2	
R5033,34	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R5035	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5036-39	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	4	
R5040,41	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R5042,43	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5044	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5045,46	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5047	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5048	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R5049	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5050,51	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5052-55	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R5056-59	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	4	
R5060,61	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	2	
R5062,63	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2	
R5064,65	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R5066,67	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5068,69	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R5070,71	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5072,73	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R5074,75	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5076,77	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R5078,79	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R5080,81	ERJ12YJ270	M.RESISTOR CH 1/2W 270	2	
R5082,83	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5084,85	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R5086,87	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R5088-90	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	3	
R5091	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5092	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5093	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5094,95	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5107,08	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R5109,10	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R5111	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5112	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R5113	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5114	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5115	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R5116	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5117,18	ERJ8GCG101	M.RESISTOR CH 1/8W 100	2	
R5119,20	ERJ8GCG1680	M.RESISTOR CH 1/8W 68	2	
R5121,22	ERJ8GCG101	M.RESISTOR CH 1/8W 100	2	
R5123	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R5124	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5125	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R5126	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5127,28	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5129-34	ERJ3GEYJ0R00	M.RESISTOR CH 1/16W 0	6	
R5201	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5202	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5203,04	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R5205	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5206	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5207	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5208	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5209-12	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	4	
R5213,14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5215,16	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R5217,18	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R5219,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5221,22	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5223	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5224	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5226	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R5227	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5228	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5229	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5230-32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5251	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5252,53	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5254,55	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5256	ERJ3RBD391	M.RESISTOR CH 3W 390	1	
R5257	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5258,59	ERJ3RBD181	M.RESISTOR CH 3W 180	2	
R5260,61	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R5262,63	ERJ3RBD103	M.RESISTOR CH 3W 10K	2	
R5264	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5265	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5266,67	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5268	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5269	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5270	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5271,72	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R5273	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5274,75	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5276	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5277,78	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R5279,80	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5281	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5282	ERJ3RBD510	M.RESISTOR CH 3W 51	1	
R5283	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5284,85	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R5286	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5287	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R5288	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5289-92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5293	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5294	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5295	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5296	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5297	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5298,99	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R5300-04	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	5	
R5305	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5306-09	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	4	
R5310,11	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5312	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5313	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5314	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5315	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5316	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5317	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5318	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5319	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5320	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5321	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5322,23	ERJ3RBD332	M.RESISTOR CH 3W 3.3K	2	
R5325	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5326	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5327	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5328	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5329,30	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5331	ERJ3RBD153	M.RESISTOR CH 3W 15K	1	
R5332	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5333	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5334, 35	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R5336-39	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R5340, 41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R5343	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5344	ERJ3RBD273	M.RESISTOR CH 3W 27K	1	
R5345	ERJ3RBD392	M.RESISTOR CH 3W 3.9K	1	
R5346	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5347	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5348	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R5349	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5350	ERJ3RBD682	M.RESISTOR CH 3W 6.8K	1	
R5351	ERJ3RBD153	M.RESISTOR CH 3W 15K	1	
R5352	ERJ3RBD682	M.RESISTOR CH 3W 6.8K	1	
R5403, 04	ERJ3RBD561	M.RESISTOR CH 3W 560	2	
R5407	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5409, 10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5411	ERJ3RBD562	M.RESISTOR CH 3W 5.2K	1	
R5412	ERJ3RBD103	M.RESISTOR CH 3W 10K	1	
R5413	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R5414	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5415, 16	ERJ3RBD103	M.RESISTOR CH 3W 10K	2	
R5417	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5418	ERJ3RBD272	M.RESISTOR CH 3W 2.7K	1	
R5419	ERJ3RBD332	M.RESISTOR CH 3W 3.3K	1	
R5420	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5421	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R5422, 23	ERJ3RBD103	M.RESISTOR CH 3W 10K	2	
R5424	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R5426	ERJ3RBD103	M.RESISTOR CH 3W 10K	1	
R5427	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5428	ERJ3RBD103	M.RESISTOR CH 3W 10K	1	
R5429	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R5430	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5431	ERJ3RBD103	M.RESISTOR CH 3W 10K	1	
R5432	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5433	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5434	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5435	ERJ3RBD103	M.RESISTOR CH 3W 10K	1	
R5436	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5437	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5438	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5440	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5441	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5442	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5443, 44	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5445	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5446	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5448	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R5449	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5450	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5452	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5453	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5454	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R5455	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5456	ERJ3RED510	M.RESISTOR CH 3W 51	1	
R5457	ERJ3RED750	M.RESISTOR CH 3W 75	1	
R5458	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5459	ERJ3RBD822	M.RESISTOR CH 3W 8.2K	1	
R5460-62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5463	ERJ3RBD182	M.RESISTOR CH 3W 8.2K	1	
R5466	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R5505, 06	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5510, 11	ERJ3RED360	M.RESISTOR CH 3W 36	2	
R5513, 14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5515, 16	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R5517	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5518	ERJ3RED510	M.RESISTOR CH 3W 51	1	
R5519	ERJ3RBD821	M.RESISTOR CH 3W 820	1	
R5520	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5531	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R5534	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5535	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R5543	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5548	ERJ3RBD332	M.RESISTOR CH 3W 3.3K	1	
R5549	ERJ3RBD183	M.RESISTOR CH 3W 18K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5550	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5552	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5553	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5557	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5559	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5560-63	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	4	
R5564	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5565-68	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	4	
R5571	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5572	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5573	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R5601-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R5609-11	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5619	ERJ3RBD103	M.RESISTOR CH 3W 10K	1	
R5621	ERJ3RBD103	M.RESISTOR CH 3W 10K	1	
R5622	ERJ3RBD123	M.RESISTOR CH 3W 12K	1	
R5623	ERJ3RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R5624	ERJ3RBD333	M.RESISTOR CH 3W 33K	1	
R5625	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5626	ERJ3RBD153	M.RESISTOR CH 3W 15K	1	
R5627	ERJ3RBD332	M.RESISTOR CH 3W 3.3K	1	
R5628	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5629, 30	ERJ3RBD153	M.RESISTOR CH 3W 15K	2	
R5631	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5633-35	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5638, 39	ERJ3RBD103	M.RESISTOR CH 3W 10K	2	
R5640	ERJ3RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R5641	ERJ3RBD123	M.RESISTOR CH 3W 12K	1	
R5642	ERJ3RBD333	M.RESISTOR CH 3W 33K	1	
R5643	ERJ3RBD153	M.RESISTOR CH 3W 15K	1	
R5644	ERJ3RBD332	M.RESISTOR CH 3W 3.3K	1	
R5645, 46	ERJ3RBD153	M.RESISTOR CH 3W 15K	2	
R5647, 48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5660	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R5667	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R5672	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5674, 75	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5676	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5677	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5678	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
R5679	ERJ3RBD562	M.RESISTOR CH 3W 5.2K	1	
R5680	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5682	ERJ3RBD822	M.RESISTOR CH 3W 8.2K	1	
R5683	ERJ3RBD153	M.RESISTOR CH 3W 15K	1	
R5684	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5685	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5690	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5695	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5696	ERJ3RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R5697	ERJ3RBD272	M.RESISTOR CH 3W 2.7K	1	
R5698, 99	ERJ3RBD103	M.RESISTOR CH 3W 10K	2	
R5700	ERJ3RBD473	M.RESISTOR CH 3W 47K	1	
R5701, 02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5703, 04	ERJ3RBD103	M.RESISTOR CH 3W 10K	2	
R5705-10	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	6	
R5751	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5752	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R5753	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5754-58	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R5760-67	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	8	
R5772, 73	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5774-77	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R5778	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5779, 80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5781, 82	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R5783-87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R5788	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5789	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5790	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5791	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5792	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5793-96	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R5797	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5798, 99	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5800-02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5803	ERDS2TJ390	C.RESISTOR 1/4W 39	1		C60405	ECEV0JV3300	E.CAPACITOR CH6.3V 33U	1	
R5804-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3		C60406	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
R5807	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		C60407	VCK0152	C.CAPACITOR	1	
R5808, 09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		C60408, 09	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
R5810-20	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	11		C60501-05	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
T65001	EYF6CU	TEST POINT	1		C60601, 02	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
T65251	EYF6CU	TEST POINT	1		C60901, 02	ECUX1H150JCN	C.CAPACITOR CH 50V 15P	2	
T65401	EYF6CU	TEST POINT	1		C60903	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
T65502	EYF6CU	TEST POINT	1		C60904	ECEV0JV1010	E.CAPACITOR CH6.3V 100U	1	
T65751	EYF6CU	TEST POINT	1		C60905	ECU1C104J	P.CAPACITOR 16V 0.1U	1	
TP5001-04	EYF6CU	TEST POINT	4		C60906	ECEV1HV3R30	E.CAPACITOR CH 50V 3.3U	1	
TP5101, 02	EYF6CU	TEST POINT	2		C60907-11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5	
TP5251, 52	EYF6CU	TEST POINT	2		C60912	ECEV0JV1010	E.CAPACITOR CH6.3V 100U	1	
TP5401-04	EYF6CU	TEST POINT	4		C60913, 14	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
TP5751, 52	EYF6CU	TEST POINT	2		C61001	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
TP5755-57	EYF6CU	TEST POINT	3		D60201	MA143	DIODE	1	
TP5759	EYF6CU	TEST POINT	1		D60401	MA142K	DIODE	1	
TP5901-08	EYF6CU	TEST POINT	8		D60402-05	MA142WK	DIODE	4	
VR5402	VRV0161B502	V.RESISTOR 5K	1		FL60001, 02	VLF0941C223	FILTER	2	
		MISCELLANEOUS			IC60001	S80730ANDT	IC	1	
	VMP5358	P.C.B. ANGLE	2		IC60002	M31010M6104H	IC	1	
	XTV3+6FFR	SCREW	2		IC60003	TVHC14FT	IC	1	
					IC60004	TVHC08FT	IC	1	
					IC60005	TVHC04FT	IC	1	
					IC60006	TVHC32FT	IC	1	
					IC60007	TVHC74FT	IC	1	
					IC60008	TVHC126FT	IC	1	
					IC60009	TVHC138FT	IC	1	
					IC60101	MBLV80B12PF	IC	1	
	VEP06B93B	RS-232C P.C. BOARD	1 (RTL)		IC60201	T163G26-1019	IC	1	
					IC60202	TVHC14FT	IC	1	
					IC60203	TVHC04FT	IC	1	
					IC60204	UPC393G2	IC	1	
C6001-05	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	5		IC60301	LVXC3245QSC	IC	1	
IC6001	ADM202JN	IC	1		IC60302, 03	UPD71055GB	IC	2	
L6001-03	VLP0083	COIL	3		IC60304-06	TVHT541FT	IC	3	
P6001	VJS2582B009	CONNECTOR (FEMALE)	1		IC60307	TVHC139FT	IC	1	
P6002	VJS3533	CONNECTOR (FEMALE)	1		IC60401	TVHC08FT	IC	1	
R6001-03	ERDS2TJ100	C.RESISTOR 1/4W 10	3		IC60402	MC14538BF	IC	1	
T66005	VJR0098	TEST POINT	1		IC60403	TVHC123FT	IC	1	
TP6001-04	VJR0098	TEST POINT	4		IC60404	MC14538BF	IC	1	
		MISCELLANEOUS			IC60501	TVHC245FT	IC	1	
	XSB3+6FZ	SCREW	2		IC60502-03	TVHC244FT	IC	4	
	VMP5359	ANGLE	1		IC60901	TC7W04F	IC	1	
					IC60902	TVHC32FT	IC	1	
					IC60903	TVHC126FT	IC	1	
					IC60904	HD641180XF6	IC	1	
					IC60905	TL7705CPSB	IC	1	
					IC60906	VS12833	IC	1	
					IC60907	STK12068S45	IC	1	
					IC61001	IDT71321A55	IC	1	
					L60001	VLQ0319K100	COIL 10UH	1	
					L60901	VLQ0319K470	COIL 47UH	1	
	VEP06C83A	AV SYSCON P.C. BOARD	1 (RTL)		P60001	VJS3406B009	CONNECTOR (FEMALE)	1	
					P60601	VJP3657	CONNECTOR (MALE)	1	
					P60801	VJS3791B050	CONNECTOR (FEMALE)	1	
					P60802	VJS3826A020	CONNECTOR (FEMALE)	1	
					P60901	VJS3406B009	CONNECTOR (FEMALE)	1	
C60001	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		QR60001	UN5213	TRANSISTOR-RESISTOR	1	
C60002	ECEV1HVR330	E.CAPACITOR CH 50V 0.33U	1		QR60201	UN5213	TRANSISTOR-RESISTOR	1	
C60003	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		QR60401-21	UN5214	TRANSISTOR-RESISTOR	21	
C60004	ECEV0JV4700	E.CAPACITOR CH6.3V 47U	1		R60001	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
C60005, 06	VCK0152	C.CAPACITOR	2		R60002	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
C60007-11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	5		R60003	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
C60012	ECEV0JV4700	E.CAPACITOR CH6.3V 47U	1		R60005-08	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
C60013-24	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	12		R60009	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
C60025	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1		R60010	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
C60102	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		R60012	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
C60201-11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	11						
C60301-07	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	7						
C60401-04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4						

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R60014, 15	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R60016	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R60018	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R60019	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R60020-28	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	9	
R60029	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R60030-37	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	8	
R60038	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R60039, 40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R60042, 43	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R60046, 47	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R60048	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R60104, 05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R60106	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R60201	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R60202, 03	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R60204, 05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R60206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R60207	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R60208	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R60209	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R60210	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R60211, 12	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R60213	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R60215	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R60216, 17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R60218-22	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	5	
R60223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R60224, 25	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R60226, 27	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R60228, 29	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R60230-39	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	10	
R60240	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R60241	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R60242-47	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	6	
R60248-52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R60253-61	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	9	
R60262	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R60263	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R60264	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R60301-05	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	5	
R60306-08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R60309-42	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	34	
R60401-08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	8	
R60409-13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	5	
R60414	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R60415	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R60416	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R60417	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R60501-03	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R60504-06	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	3	
R60507-43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	37	
R60544-51	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	8	
R60601	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R60602	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R60901, 02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R60904-08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R60910-32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	23	
R60933	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R60934-38	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R60939-41	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R61001, 02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
SW60901	VSS0367-04TB	SWITCH	1	
T660001	EYF6CU	TEST POINT	1	
T660907	EYF6CU	TEST POINT	1	
TP60001, 02	EYF6CU	TEST POINT	2	
TP60004, 03	EYF6CU	TEST POINT	2	
TP60902-04	EYF6CU	TEST POINT	3	
U60906	VJS2336A028	CONNECTOR (FEMALE)	1	
VR60001, 02	VRV0161B203	V.RESISTOR	20K 2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
X60001	VSX0833	CRYSTAL OSCILLATOR	1	
X60901	VSX0641	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	XYN2+J6	SCREW	2	
	VEP03D92A	REAR J P.C. BOARD	1	(RTL)
C701, 02	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	2	
C703, 04	ECEA1CKA470	E. CAPACITOR 16V 47U	2	
C706, 07	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	2	
C708	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C709, 10	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	2	
C711	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C715, 16	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	2	
C717	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C718	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C719	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C720, 21	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	2	
C726, 27	ECEA1CKN330	E. CAPACITOR 16V 33U	2	
D701-03	MA151K	DIODE	3	
FL701, 02	VLP0145	COIL	2	
FL703, 04	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
FL705-12	VLP0145	COIL	8	
IC701	MC74HC4053F	IC	1	
IC702	XC62AP5002P	IC	1	
IC703	XC62DN5002P	IC	1	
J701, 02	VJS3155	CONNECTOR (FEMALE)	2	
J703-06	VJS3154	CONNECTOR (FEMALE)	4	
J707, 08	VJJ0323	RCA PIN JACK	2	
L701-04	VL00319K101	COIL 100UH	4	
P701, 02	VJP3600F016K	CONNECTOR (MALE)	2	
QR701-03	XN4601	TRANSISTOR-RESISTOR	3	
QR705	XN4501	TRANSISTOR-RESISTOR	1	
QR706	XN4401	TRANSISTOR-RESISTOR	1	
QR707	XN4501	TRANSISTOR-RESISTOR	1	
QR708	XN4401	TRANSISTOR-RESISTOR	1	
QR709	XN4501	TRANSISTOR-RESISTOR	1	
QR710	XN4401	TRANSISTOR-RESISTOR	1	
QR711	XN4501	TRANSISTOR-RESISTOR	1	
QR712	XN4401	TRANSISTOR-RESISTOR	1	
QR713	XN4501	TRANSISTOR-RESISTOR	1	
QR714	UN5113	TRANSISTOR-RESISTOR	1	
R701-03	ERJ6GEYG750	M. RESISTOR CH 1/10W 75	3	
R704	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R705	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R707	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R708	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R709	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R710	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R711	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R712	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R713	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R714	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R715	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R716	ERJ6GEYG750	M. RESISTOR CH 1/10W 75	1	
R717-19	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	3	
R721	ERJ6GEYJ620	M. RESISTOR CH 1/10W 62	1	
R724	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R726	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1	

VEP03D92A / VEP06B94A / VEP00Y35A / VEP80856A / VEK7793

PRT-34

AJ-D230HP
VEP02545G

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP02545G	SERVO P.C.BOARD	1	(RTL)
C2001	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2003	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2101	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2103	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2107,08	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2109,10	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	2	
C2111,12	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2113	ECEV1HVR33Q	E.CAPACITOR CH 50V 0.33U	1	
C2114	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2115	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2116	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2117	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2201	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C2202	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2203	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C2204	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2205	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	1	
C2206	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2208,09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2210	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2211	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C2212	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2213,14	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	2	
C2215,16	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	2	
C2217	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2218,19	ECUX1H010CCV	C.CAPACITOR CH 50V 1P	2	
C2221	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C2222,23	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2224	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2225	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
C2226,27	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2301	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2302,03	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C2304	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2305,06	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C2307	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2308	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C2309	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2310	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C2311	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2312	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C2313	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2314	VCK0152	C.CAPACITOR	1	
C2315-20	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	6	
C2402	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2406	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
C2408,09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2411	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2413	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2414-16	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	3	
C2417,18	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C2419	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C2420,21	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C2422	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C2423,24	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C2425	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C2426	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C2427	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2432	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2434	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2437	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2438	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2444	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2445	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2450	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
C2451	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2455-57	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	3	
C2458-60	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	3	
C2461	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C2462	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2463,64	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2465-67	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	3	
C2468-70	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	3	
C2471-76	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	6	
C2477,78	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C2479	VCK0152	C.CAPACITOR	1	
C2480	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2501-06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	6	
C2507	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C2508-12	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	5	
C2513,14	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C2515-19	VCE0180	CAPACITOR	5	
C2520-25	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	6	
C2526-31	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	6	
C2532-37	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	6	
C2539,40	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C2541	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2542	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2543	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2601	VCE0180	CAPACITOR	1	
C2603	VCE0180	CAPACITOR	1	
C2606	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2607	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2608	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2609	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2610	VCC0037F432	C.CAPACITOR	432P	
C2611	VCE0180	CAPACITOR	1	
C2613	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2614	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2615	VCE0180	CAPACITOR	1	
C2617	VCE0180	CAPACITOR	1	
C2619	VCK0152	C.CAPACITOR	1	
C2620	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2621	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C2622	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2707	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2708	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2709	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C2710	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C2711	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2712,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2714	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2715	ECUX1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C2716	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2717	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2719	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2721-24	ECEV1AV330Q	E.CAPACITOR CH 10V 33U	4	
C2725,26	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2727	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C2728,29	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2801-04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C2903	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2904	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2905	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C2906	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2907	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C2908	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2909	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C2910	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2911	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C2912	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C2913	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C2914	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C2915	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C2918	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C2919	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2921	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2923-25	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C2926	ECEV1HV3R3Q	E.CAPACITOR CH 50V 3.3U	1	
C2927	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2928	VCK0152	C.CAPACITOR	1	
C2932	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2934	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2935	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C2937	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2942	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2947-49	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		IC2701	UPC455662	IC	1	
C2951	ECEVICV220Q	E. CAPACITOR CH 16V 22U	1		IC2702	TC4W53FU	IC	1	
C2952-55	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4		IC2703	NJM4565MD	IC	1	
C64001	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1		IC2704	TC7W04F	IC	1	
C64002	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		IC2705	TC7W74FU	IC	1	
C64003	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC2801	T160G11-1258	IC	1	
C64201, 02	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2		IC2901	TA75W558FU	IC	1	
C64203	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1		IC2902	TA75W393FU	IC	1	
C64204, 05	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	2		IC2904	TA75W558FU	IC	1	
C64206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC2905	TA75W393FU	IC	1	
C64207	ECEVICV4R7Q	E. CAPACITOR CH 25V 4.7U	1		IC2906, 07	UPC455862	IC	2	
C64208	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		IC2908	TA75W01FU	IC	1	
C64209	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1		IC64001	NJM2904M	IC	1	
					IC64201, 02	M54649L	IC	2	
D2001, 02	MA704	DIODE	2		L2001	VL00319K101	COIL	100UH	1
D2301, 02	MA143	DIODE	2		L2003	VL00319K100	COIL	10UH	1
D2401-06	MA738	DIODE	6		L2101	VL00319K100	COIL	10UH	1
D2450-55	MA738	DIODE	6		L2102	VL00319K101	COIL	100UH	1
D2501, 02	MA736	DIODE	2		L2201-03	VL00319K100	COIL	10UH	3
D2503, 04	MA728	DIODE	2		L2502	VL00407120M	COIL	12UH	1
D2601	MA728	DIODE	1		L2503	VL00319K100	COIL	10UH	1
D2602	MA736	DIODE	1		L2504	VL00407151K	COIL	150UH	1
D2603	MA728	DIODE	1		L2505	VL00129	COIL	300UH	1
D2604	MA736	DIODE	1		L2601	VL00407120M	COIL	12UH	1
D2701-03	MA143	DIODE	3		L2603, 04	VL00407151K	COIL	150UH	2
D2901-04	MA143	DIODE	4		L2701, 02	VL00319K101	COIL	100UH	2
D2906, 07	MA736	DIODE	2		L2801	VL00319K101	COIL	100UH	1
D64001	MA8051-H	DIODE	1		L2901	VL00319K101	COIL	100UH	1
D64002	21DQ04	DIODE	1		L64201, 02	VL00319K101	COIL	100UH	2
D64003-08	MA738	DIODE	6						
D64009, 10	NS003A04	DIODE	2		P2001, 02	VJP3949A070H	CONNECTOR (MALE)		2
D64011, 12	MA738	DIODE	2		P2003	VJP1231T	CONNECTOR (MALE)	4P	1
D64013, 14	NS003A04	DIODE	2		P2004	VJP1230T	CONNECTOR (MALE)	3P	1
D64015-22	MA738	DIODE	8		P2011	VJP3172D002	CONNECTOR (MALE)		1
D64023-26	MA142WA	DIODE	4		P2012	VJP3172D005	CONNECTOR (MALE)		1
D64201	MA3100L	DIODE	1		P2013	VJP3172D002	CONNECTOR (MALE)		1
D64203	MA3068-M	DIODE	1		P2014	VJP3172D003	CONNECTOR (MALE)		1
D64204	MA3056-M	DIODE	1		P2015	VJP3518B002	CONNECTOR (MALE)		1
D64205	MA3051-M	DIODE	1		P2016	VJP3518B003	CONNECTOR (MALE)		1
D64209	MA3056-H	DIODE	1		P2017	VJS3801B010	CONNECTOR (FEMALE)		1
D64210	MA3100L	DIODE	1		P2018	VJP3518B002	CONNECTOR (MALE)		1
D64214	MA3075-M	DIODE	1		P2019	VJP3172D002	CONNECTOR (MALE)		1
D64215	MA738	DIODE	1		P2020	VJP3518B003	CONNECTOR (MALE)		1
D64216	MA142WK	DIODE	1		P2021	VJP3518B002	CONNECTOR (MALE)		1
					P2022	VJP3172D004	CONNECTOR (MALE)		1
FL2001	VLF0941C223	FILTER	1		P2024	VJP3518B002	CONNECTOR (MALE)		1
					P2025	VJP1230T	CONNECTOR (MALE)	3P	1
IC2101	M37774M5L435	IC	1		P2026	VJP1236T	CONNECTOR (MALE)	9P	1
IC2102	TC7SHU04FU	IC	1		P2030	VJP3172D003	CONNECTOR (MALE)		1
IC2103	S80730ANDT	IC	1		P2032	VJP3172D004	CONNECTOR (MALE)		1
IC2104, 05	TC4W53FU	IC	2		P2033	VJS3406B015	CONNECTOR (FEMALE)		1
IC2106	TC7SHU04FU	IC	1		P2034, 35	VJS3813C017	CONNECTOR (FEMALE)		2
IC2201	M37774M5L434	IC	1		P2036	VJS3406B019	CONNECTOR (FEMALE)		1
IC2202	SC371025AVFU	IC	1		P2037	VJP3125B002	CONNECTOR (MALE)		1
IC2203	TA75W01FU	IC	1		P2038	VJP3172D002	CONNECTOR (MALE)		1
IC2205	TC7W74FU	IC	1						
IC2206	TA75W01FU	IC	1		Q2501, 02	2SB1073-R	TRANSISTOR		2
IC2207	TVHC574FT	IC	1		Q2503-06	2SD1820-R	TRANSISTOR		4
IC2209-11	TC7SHU04FU	IC	3		Q2507-09	2SD1119-R	TRANSISTOR		3
IC2301	TA75W558FU	IC	1		Q2510-12	2SB1073-R	TRANSISTOR		3
IC2302	TA75W393FU	IC	1		Q2513-15	2SD1119-R	TRANSISTOR		3
IC2303	TA75W558FU	IC	1		Q2516-18	2SB1073-R	TRANSISTOR		3
IC2304	TA75W393FU	IC	1		Q2601, 02	2SB1073-R	TRANSISTOR		2
IC2305	TA75W558FU	IC	1		Q2701	2SD1820-R	TRANSISTOR		1
IC2306	TC7W74FU	IC	1		Q2702	2SB1219A-R	TRANSISTOR		1
IC2401, 02	AN3834S	IC	2		Q2703	2SD1820-R	TRANSISTOR		1
IC2404	TA75W558FU	IC	1		Q2704, 05	2SB1219-R	TRANSISTOR		2
IC2405	TA75W01FU	IC	1		Q2706, 07	2SD1820-R	TRANSISTOR		2
IC2406	TA75W393FU	IC	1		Q2708	2SB1219A-R	TRANSISTOR		1
IC2407	XC62DN5002P	IC	1		Q2901	2SB1219A-R	TRANSISTOR		1
IC2502	TA75W393FU	IC	1		Q64001	2SB936A-Q	TRANSISTOR		1
IC2503	TB6519F	IC	1		Q64002	2SD1819A-R	TRANSISTOR		1
IC2506	TB6519F	IC	1		Q64003	2SB1073-R	TRANSISTOR		1
IC2601	TL1451CHS	IC	1		Q64004	2SD1819A-R	TRANSISTOR		1
IC2602	XC62AP5002P	IC	1						

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
064005	2SB1219A-R	TRANSISTOR	1	
064006	2SD1819A-R	TRANSISTOR	1	
064007	2SB1073-R	TRANSISTOR	1	
064008	2SD1624-S	TRANSISTOR	1	
064009	2SD1819A-R	TRANSISTOR	1	
064010, 11	2SB1219A-R	TRANSISTOR	2	
064012	2SD1819A-R	TRANSISTOR	1	
064013	2SB1073-R	TRANSISTOR	1	
064014, 15	2SD1624-S	TRANSISTOR	2	
064016	2SB1219A-R	TRANSISTOR	1	
064017	2SB1073-R	TRANSISTOR	1	
064018	2SD1624-S	TRANSISTOR	1	
064019, 20	2SD1819A-R	TRANSISTOR	2	
064021	2SB1219A-R	TRANSISTOR	1	
064022	2SB1073-R	TRANSISTOR	1	
064023	2SB1219A-R	TRANSISTOR	1	
064024	2SD1819A-R	TRANSISTOR	1	
064025	2SB1073-R	TRANSISTOR	1	
064026	2SB1219A-R	TRANSISTOR	1	
064027	2SD1624-S	TRANSISTOR	1	
064028	2SB1073-R	TRANSISTOR	1	
064029	2SD1624-S	TRANSISTOR	1	
064030	2SD1819A-R	TRANSISTOR	1	
064031	2SD1624-S	TRANSISTOR	1	
064032	2SB1073-R	TRANSISTOR	1	
064033	2SB1219A-R	TRANSISTOR	1	
064034	2SD1624-S	TRANSISTOR	1	
064035	2SD1819A-R	TRANSISTOR	1	
064201	2SD1624-S	TRANSISTOR	1	
064202	2SB1073-R	TRANSISTOR	1	
064203	2SD1819A-R	TRANSISTOR	1	
QR2401, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR2450, 51	UN5213	TRANSISTOR-RESISTOR	2	
QR2501, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR2703, 04	UN5213	TRANSISTOR-RESISTOR	2	
QR64001	UN5114	TRANSISTOR-RESISTOR	1	
QR64002	UN5214	TRANSISTOR-RESISTOR	1	
QR64003	UN5114	TRANSISTOR-RESISTOR	1	
QR64004-06	UN5214	TRANSISTOR-RESISTOR	3	
QR64007	UN5114	TRANSISTOR-RESISTOR	1	
QR64008	UN5214	TRANSISTOR-RESISTOR	1	
QR64009	UN5114	TRANSISTOR-RESISTOR	1	
QR64010, 1	UN5214	TRANSISTOR-RESISTOR	2	
QR64012, 13	UN5114	TRANSISTOR-RESISTOR	2	
QR64014	UN5214	TRANSISTOR-RESISTOR	1	
QR64015, 16	UN5114	TRANSISTOR-RESISTOR	2	
QR64017	UN5211	TRANSISTOR-RESISTOR	1	
QR64201-03	UN5213	TRANSISTOR-RESISTOR	3	
QR64204, 05	UN5211	TRANSISTOR-RESISTOR	2	
QR64212	UN5114	TRANSISTOR-RESISTOR	1	
QR64213, 14	UN5214	TRANSISTOR-RESISTOR	2	
R2106	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R2107	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2108	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R2109	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R2110	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R2111	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2112, 13	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R2114	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2115-20	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	6	
R2121-24	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R2125	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2126	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R2127	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R2128	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2201, 02	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R2203, 04	ERJ3RBD103	M. RESISTOR CH 3W 10K	2	
R2205	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R2206	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R2207, 08	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	2	
R2209-12	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	4	
R2213, 14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2221, 22	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2225	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2226	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R2227	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R2228*	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R2229	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2230	ERJ3GEY682	M. RESISTOR CH 1/16W 6.8K	1	
R2231-34	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R2236-41	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	6	
R2242	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2243	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2245	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2301	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2302	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R2303	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2304	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2305	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R2306	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R2307	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2308	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2309	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R2310	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R2311	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2312	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R2313-15	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	3	
R2316	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R2317	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2318	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2319	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2320, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2322	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R2323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2324	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2326	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R2327	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2328	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R2329	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2331	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R2334	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R2336, 37	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R2402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2404	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2405	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R2409	ERJ3RBD103	M. RESISTOR CH 3W 10K	1	
R2411	ERJ3RBD182	M. RESISTOR CH 3W 8.2K	1	
R2412	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	1	
R2415	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	1	
R2421	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2423	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R2428, 29	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R2432	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R2436	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R2443	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R2450, 51	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R2452	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2453	ERJ3RBD103	M. RESISTOR CH 3W 10K	1	
R2454	ERJ3RBD182	M. RESISTOR CH 3W 8.2K	1	
R2455, 56	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	2	
R2457-59	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	3	
R2460	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R2461	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R2462	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R2463	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R2465	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2467	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R2468-71	ERJ3RBD563	M. RESISTOR CH 3W 56K	4	
R2472, 73	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R2474	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R2476	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2477, 78	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
R2479-82	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R2501, 02	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R2503, 04	ERJ3GEY6472	M. RESISTOR CH 1/16W 4.7K	2	
R2505, 06	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R2507, 08	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R2509, 10	ERJ3GEYJ681	M. RESISTOR CH 1/8W 680	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2511	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R2904	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2512	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1		R2905	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2513, 14	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2		R2906	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R2515-20	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	6		R2907	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2522	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1		R2908	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2523, 24	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	2		R2909	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2525	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1		R2911	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2526	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R2912	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2527	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R2914	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R2528	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R2915	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2529	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R2916	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R2530	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R2917	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2531	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R2919	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R2532	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R2920	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2533	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R2921	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2534, 35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R2922, 23	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R2536	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1		R2924	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R2537, 38	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R2925, 26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R2539	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1		R2928	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2540	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1		R2929	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R2541	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R2930	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R2542	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1		R2931	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R2543	ERJ3GEY472	M.RESISTOR CH 1/16W 4.7K	1		R2932-34	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R2544	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1		R2935	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2545	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R2937	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2546	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R2942	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R2601, 02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R2944	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R2603	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R2949	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R2604, 05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R2950	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R2606	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R2951	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R2607	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1		R2952	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2608	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R2959, 60	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R2609	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1		R2961	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2610	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R2963	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2612	ERJ3RBD183	M.RESISTOR CH 3W 18K	1		R64001	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R2614	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1		R64002	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2615	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R64003	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R2618	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1		R64004	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R2619	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		R64005	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2622	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1		R64006, 07	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	2	
R2623	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1		R64008	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	1	
R2624	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		R64009	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2625	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R64010	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2627, 28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R64011	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	1	
R2629, 30	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2		R64012, 13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R2701, 02	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2		R64014, 15	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	2	
R2703	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R64016, 17	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	2	
R2704	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R64018	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2705	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R64019	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2706	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R64020	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	1	
R2711	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1		R64021	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2712	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R64022	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	1	
R2713	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R64023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2714	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1		R64024	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2715	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R64025, 26	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R2719	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1		R64027	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2720	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1		R64028	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2722	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R64029, 30	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	2	
R2723	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1		R64031	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2724	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R64032-34	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	3	
R2725	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R64035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2726	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1		R64036	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2727	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1		R64037-39	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	3	
R2728	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R64040	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2730, 31	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2		R64041	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2732, 33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R64042	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2734, 35	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2		R64043, 44	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R2736	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R64045, 46	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	2	
R2801	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R64047, 48	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	2	
R2802	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R64049	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	1	
R2803, 04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R64050	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2806	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R64051	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2808	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R64052	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2901, 02	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2		R64053	ERJ8GEYJ391	M.RESISTOR CH 1/8W 390	1	
R2903	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R64054, 55	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	

AJ-D230HP

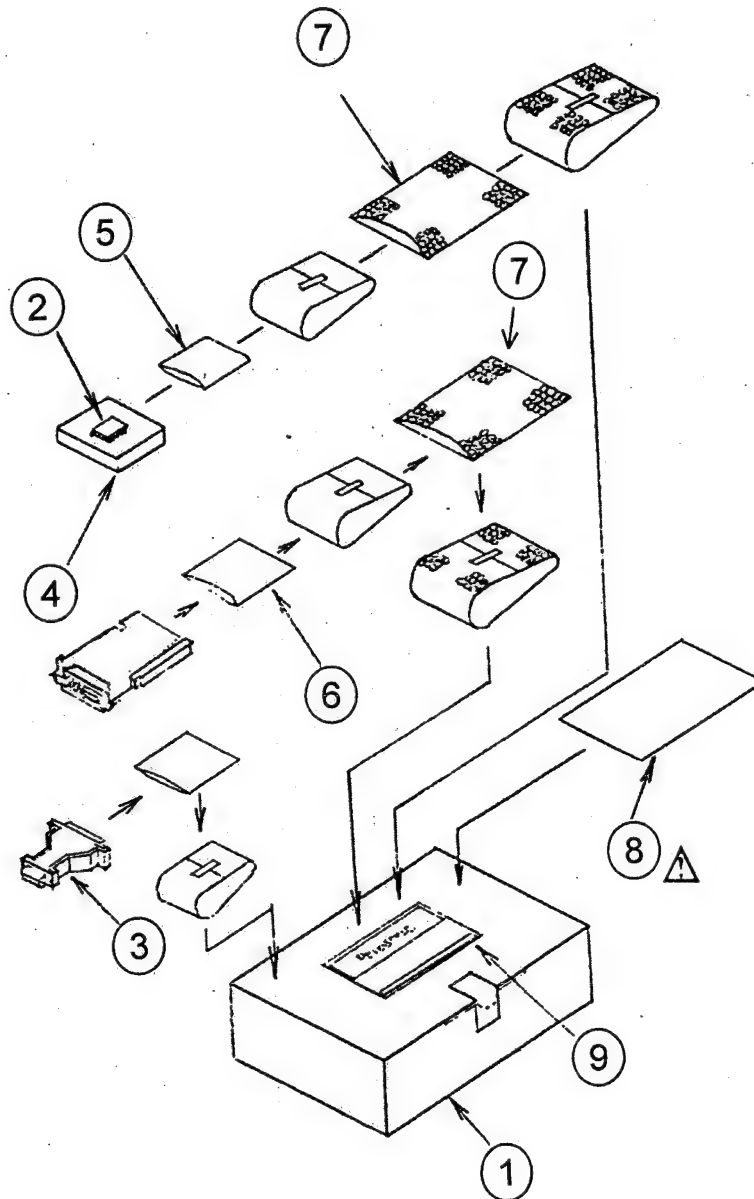
VEP02545G / VEK7691 / VEK7726 / VEP00Y68A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R64056	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				MISCELLANEOUS		
R64057, 58	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2			VSC4607	SHIELD CASE	1	
R64059, 60	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	2			VJF1310	CONNECTOR HOLDER	2	
R64061	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1			VEE2795	CABLE	1	
R64062, 63	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2						
R64064	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R64065	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1						
R64066	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1						
R64067	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64068	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1			■ VEK7691	LED HOLDER P.C. BOARD	1	(RTL)
R64069	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R64070	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1						
R64071	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				MISCELLANEOUS		
R64072	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1						
R64073	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1			VMD2528	LED HOLDER	1	
R64074	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1			LN159.VT	LED	1	
R64075	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1			VEE9576	WIRE CABLE	1	
R64076	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1						
R64077, 78	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2						
R64079	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R64080	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1						
R64081	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64082, 83	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	2			■ VEK7726	REEL DRIVE SENSOR P.C. BOARD	1	(RTL)
R64084	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1						
R64085	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64086	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1				MISCELLANEOUS		
R64087	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	1						
R64088, 89	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2			ON1004-R	PHOTO COUPLER	2	
R64090	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1			VEE9788	WIRE CABLE	1	
R64091-93	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	3			ERDS2TJ221	C. RESISTOR 1/4W 220	2	
R64094	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64095	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1						
R64096	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64097-02	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	6						
R64103	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64104	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1						
R64105, 06	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2			■ VEP00Y68A	FFC UNIT P.C. BOARD	1	(RTL)
R64107	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
R64201	ERJ8GEYJ222	M. RESISTOR CH 1/8W 2.2K	1						
R64202	ERJ6GEYJ271	M. RESISTOR CH 1/10W 270	1				MISCELLANEOUS		
R64203	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1						
R64204	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1			VJS3949C070M	CONNECTOR (FEMALE)	2	
R64205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64206	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1						
R64207	ERJ8GEYJ300	M. RESISTOR CH 1/8W 30	1						
R64208	ERJ8GEYJ222	M. RESISTOR CH 1/8W 2.2K	1						
R64209	ERJ6GEYJ271	M. RESISTOR CH 1/10W 270	1						
R64212-14	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	3						
R64218, 19	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	2						
R64223, 24	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	2						
R64225	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64226	ERJ8GEYJ0R00	M. RESISTOR CH 1/8W 0	1						
R64229	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R64230	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1						
R64231	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1						
TP201-05	EYF6CU	TEST POINT	5						
TP301-05	EYF6CU	TEST POINT	5						
TP701-04	EYF6CU	TEST POINT	4						
TP2401	EYF6CU	TEST POINT	1						
TP2403, 04	EYF6CU	TEST POINT	2						
TP2451	EYF6CU	TEST POINT	1						
TP2453, 54	EYF6CU	TEST POINT	2						
TP2801	EYF6CU	TEST POINT	1						
TP2903	EYF6CU	TEST POINT	1						
TP2906	EYF6CU	TEST POINT	1						
TPG201	EYF6CU	TEST POINT	1						
VR2201	EVM7JGA00B15	V. RESISTOR 100K	1						
X2101	VSX0821	CRYSTAL OSCILLATOR	1						
X2201	VSX0645	CRYSTAL OSCILLATOR	1						

AJ-YAD230P


Components identified with the mark  have the special characteristics for safety.
When replacing any of these components, use only the same type.

PACKING PARTS ASSEMBLY



PACKING PARTS ASSEMBLY

AJ-YAD230P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VP66296	PACKING CASE	1						
2	VS12830	ROM	1						
3	VJJ0623	ATTACHMENT PLUG	1						
4	VPN4883	ROM CUSHION	1						
5	VPF0484	CONDUCTIVE BAG	1						
6	VPF0359	CONDUCTIVE BAG	1						
7	VPN2445	AIR CAP	2						
 8	VQT7632	OPERATING INSTRUCTION	1						
9	VOL8468	PACKING LABEL	1						

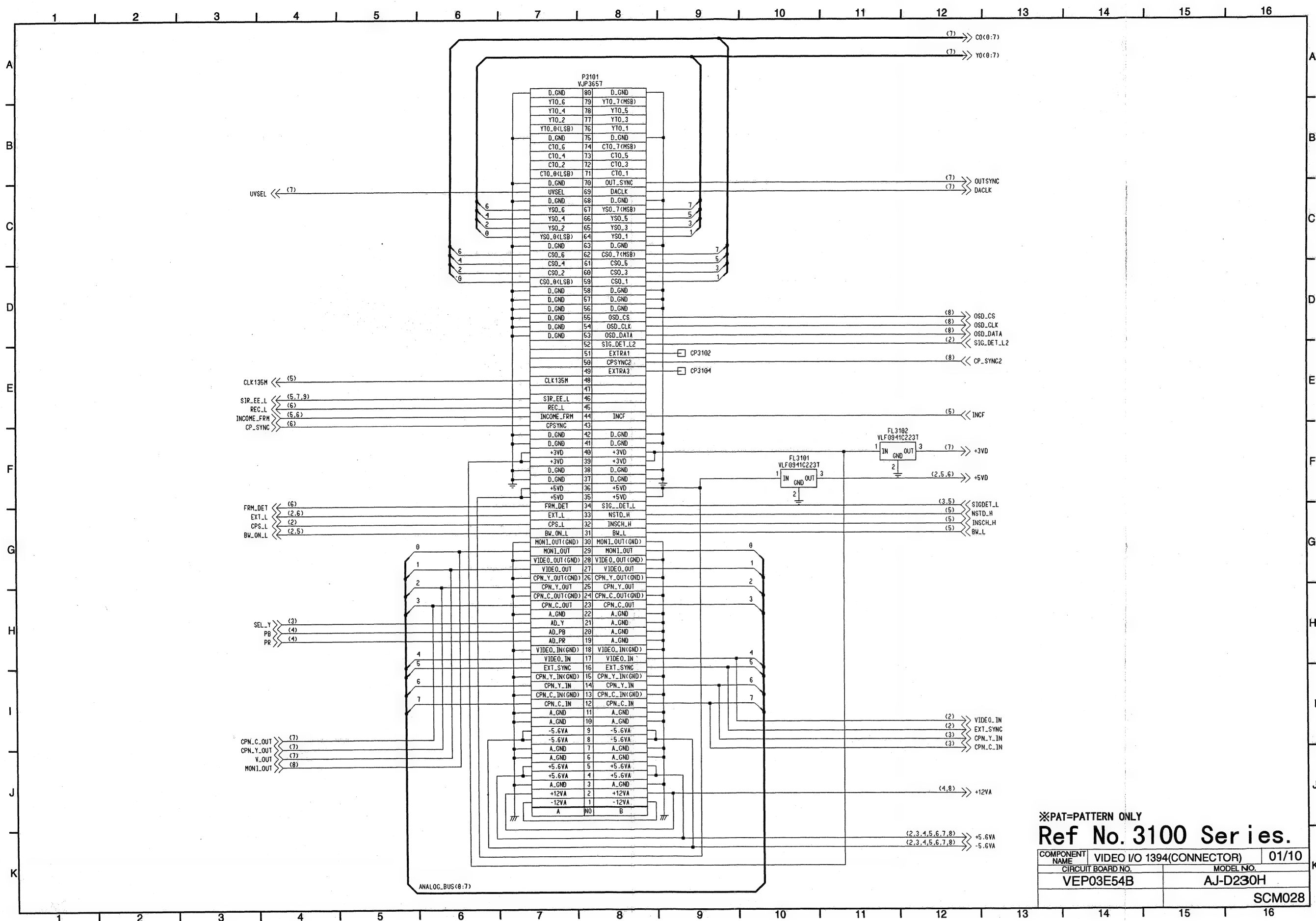
ELECTRICAL REPLACEMENT PARTS LIST

AJ-YAD230P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		DIGITAL VIDEO P.C. BOARD	1	(RTL)	R10	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R113	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R116, 17	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R119	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R121-29	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	9	
					R130, 31	ERJ6GEYJ104	M. RESISTOR CH 1/10W 100K	2	
					R132	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R134, 35	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R136-43	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	8	
					R144	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R145-47	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	3	
					R148-51	ERJ6GEYJ104	M. RESISTOR CH 1/10W 100K	4	
					R152, 53	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	2	
					R154, 55	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R201-03	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	3	
					R204-07	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	4	
					R208, 09	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	2	
					R301-10	ERJ6GEYJ560	M. RESISTOR CH 1/10W 56	10	
					R311	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R312	ERJ6GEYJ560	M. RESISTOR CH 1/10W 56	1	
					R313	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R314	ERJ6GEYJ560	M. RESISTOR CH 1/10W 56	1	
					R315	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R401	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
					R402	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R403, 04	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	2	
					R405	ERJ6GEYJ394	M. RESISTOR CH 1/10W 390K	1	
					R406, 07	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	2	
					R409	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
					R410	ERJ6RBD622	M. RESISTOR CH 1/10W 6.2K	1	
					R411	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
					R414, 15	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R420, 21	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R501	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R502	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
					R503, 04	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R505	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
					R506	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R507-11	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	5	
					R512, 13	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	2	
					R515	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R517	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R519	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R520	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
					R522-25	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	4	
					R526	ERJ6GEYJ512	M. RESISTOR CH 1/10W 5.1K	1	
					R529, 30	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R601, 02	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	2	
					R603-06	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	4	
					R607, 08	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	2	
					R609, 10	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R611, 12	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	2	
					R701	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R801, 02	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	2	
					R803, 04	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	2	
					R805	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R806	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	1	
					R807-09	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	3	
					R810	ERJ6GEYJ102	M. RESISTOR CH 1/10W 1K	1	
					R901	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1	
					R902	ERJ6RBD302	M. RESISTOR CH 1/10W 3K	1	
					R903	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	1	
					R904	ERJ6RBD241	M. RESISTOR CH 1/10W 240	1	
					R905	ERJ6RBD391	M. RESISTOR CH 1/10W 390	1	
					R906	ERJ6RBD271	M. RESISTOR CH 1/10W 270	1	
					R907	ERJ6RBD391	M. RESISTOR CH 1/10W 390	1	
					R908	ERJ6RBD362	M. RESISTOR CH 1/10W 3.6K	1	
					SW101	VSP1005	SWITCH	1	
					SW102	VSS0367-04B	SWITCH	1	
					SW103	VSS0342	SWITCH	1	
					TG301	EYF6CU	TEST POINT	1	
					TG801-06	VJR0646	TEST POINT	6	
C101-10	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	10						
C112-22	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	11						
C201-04	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	4						
C301-03	ECUM1H271JCN	C. CAPACITOR CH 50V 270P	3						
C304-06	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	3						
C307	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1						
C402-05	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	4						
C406, 07	ECUX1H120JCN	C. CAPACITOR CH 50V 12P	2						
C408-13	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	6						
C501-12	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	12						
C601-08	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	8						
C701	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1						
C801-03	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3						
C804, 05	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2						
C806	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1						
C901	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1						
C902	ECEA1HU101	E. CAPACITOR 50V 100U	1						
C903	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1						
C904	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1						
C905	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1						
C906	VCEA1AAP101	E. CAPACITOR 10V 100U	1						
C907, 08	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2						
C909	ECEV0JV220Q	E. CAPACITOR CH 6.3V 22U	1						
C910	ECEV0JV101Q	E. CAPACITOR CH 6.3V 100U	1						
D101-03	LN1251CAL	DIODE	3						
D901, 02	SFPB-76V	DIODE	2						
D903, 04	MA701A	DIODE	2						
D905	SFPB-76V	DIODE	1						
FL301-06	VLF1427	FILTER	6						
FL307-09	VLF0931	FILTER	3						
FL801, 02	VLF0931	FILTER	2						
IC101	M31010M6104H	IC	1						
IC102	MAX3223CAP	IC	1						
IC103, 04	TC7S14F	IC	2						
IC105, 06	TC4W53FU	IC	2						
IC107	S80727ANDQ	IC	1						
IC111	MC74HC244AF	IC	1						
IC112	TCVHC240F	IC	1						
IC201	MBLV80B12PF	IC	1						
IC202, 03	KM68V1CL	IC	2						
IC204	IDT71V321LSF	IC	1						
IC401	TSB21LV03APM	IC	1						
IC402	TC7SH04FU	IC	1						
IC403	TC7SH08FU	IC	1						
IC501	TSB13LV11PBW	IC	1						
IC502	TC7SH04FU	IC	1						
IC601	UPD65849G032	IC	1						
IC701	MB81V4260S7	IC	1						
IC801	TCVHC244F	IC	1						
IC901	LM2594MADJ	IC	1						
IC902	LT1086CM	IC	1						
L101-08	VLP0119	COIL	8						
L801	VLP0133	COIL	1						
L901	VLQ0319K470	COIL 47UH	1						
L902	VLQ0784102	COIL 1000UH	1						
L903	VLQ0319K470	COIL 47UH	1						
P101	VJS3406B009	CONNECTOR (FEMALE)	1						
P102	VJS2074	CONNECTOR (FEMALE)	1						
P301-03	VJP3993	CONNECTOR (MALE)	3						
P801	VJP3176B064	CONNECTOR (MALE)	1						
R101	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1						
R102-04	ERJ6GEYJ103	M. RESISTOR CH 1/10W 10K	3						
R105	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1						
R106	ERJ6GEYJ104	M. RESISTOR CH 1/10W 100K	1						
R107	ERJ6GEYJ122	M. RESISTOR CH 1/10W 1.2K	1						

AJ-YAD230P

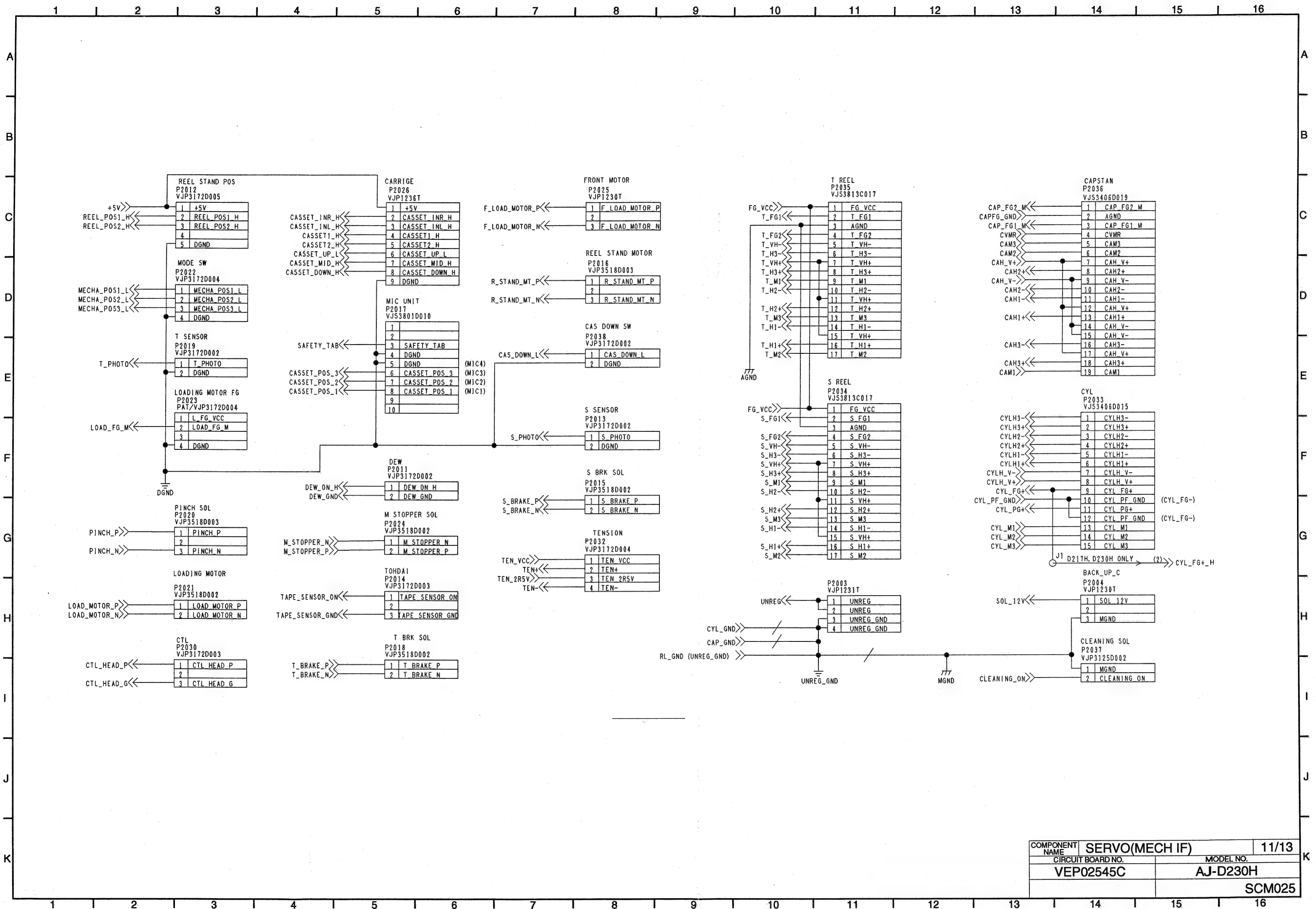
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TH301-03	VRT0148050	THERMISTOR	3	
TH901	VRT0148050	THERMISTOR	1	
TP102	EYF6CU	TEST POINT	1	
TP108-15	EYF6CU	TEST POINT	8	
TP501	EYF6CU	TEST POINT	1	
TP601-03	EYF6CU	TEST POINT	3	
TP609, 10	EYF6CU	TEST POINT	2	
TP613-15	EYF6CU	TEST POINT	3	
TP617-23	EYF6CU	TEST POINT	7	
TP628	EYF6CU	TEST POINT	1	
TP810, 11	EYF6CU	TEST POINT	2	
TP901, 02	EYF6CU	TEST POINT	2	
X101	VSX0833	CRYSTAL OSCILLATOR	1	
X401	VSX0974	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
VMP5801		TERMINAL ANGLE	1	
VMP2502		EARTH ANGLE	1	
XTV3+6F		SCREW	2	
XSB3+6FZ		SCREW	2	
VHD1124		SCREW	2	

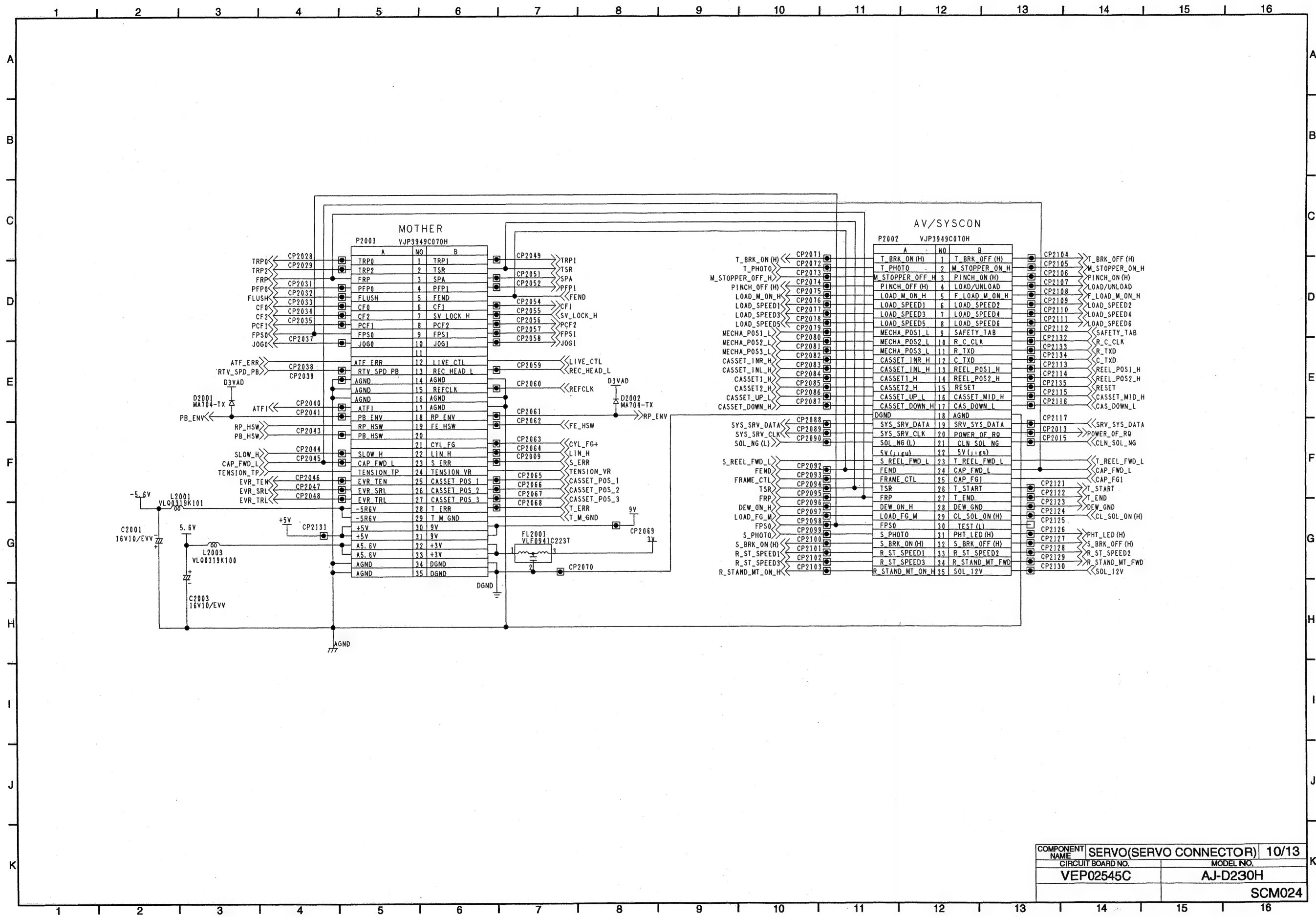


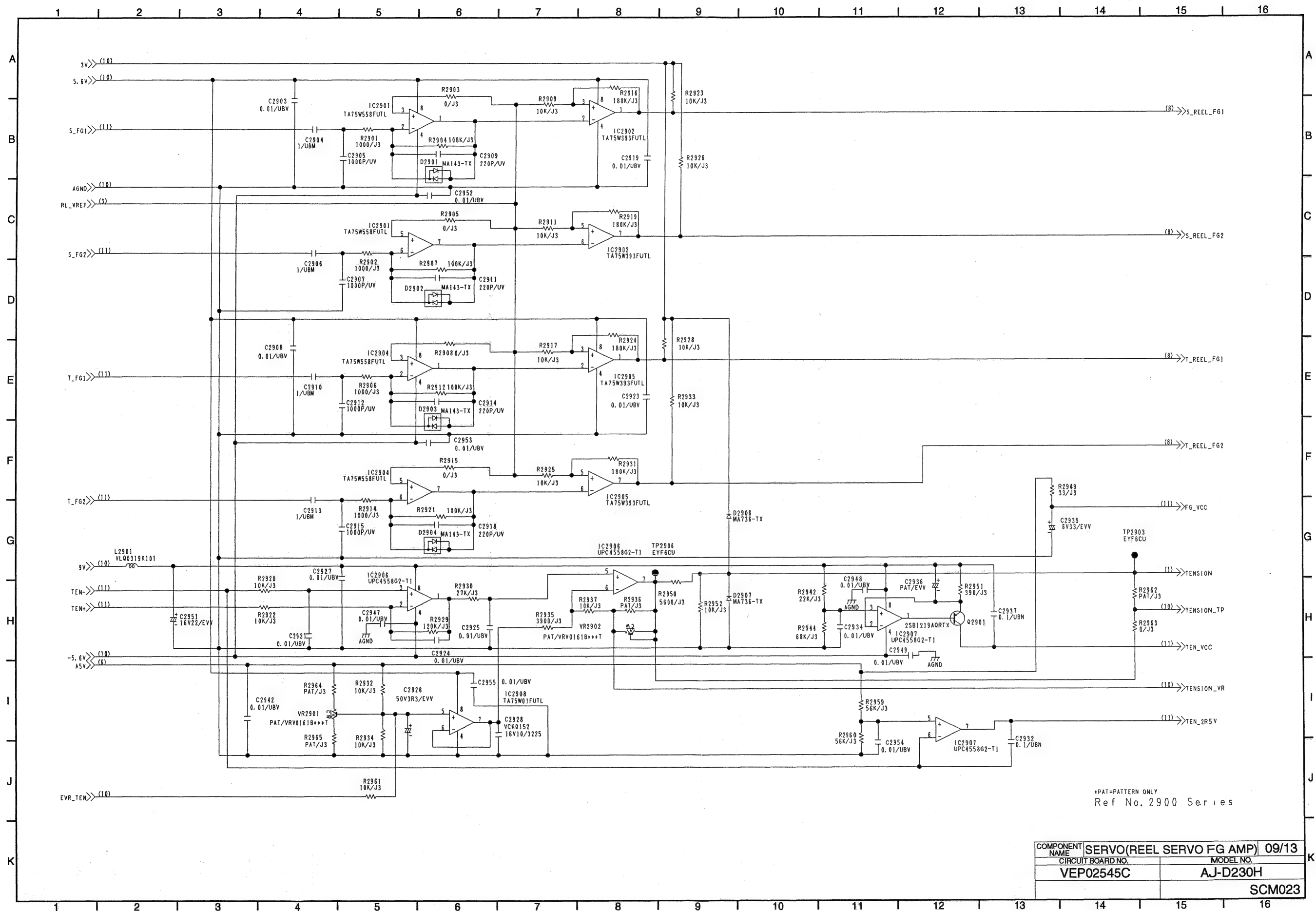
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Ref No. 3100 Series.

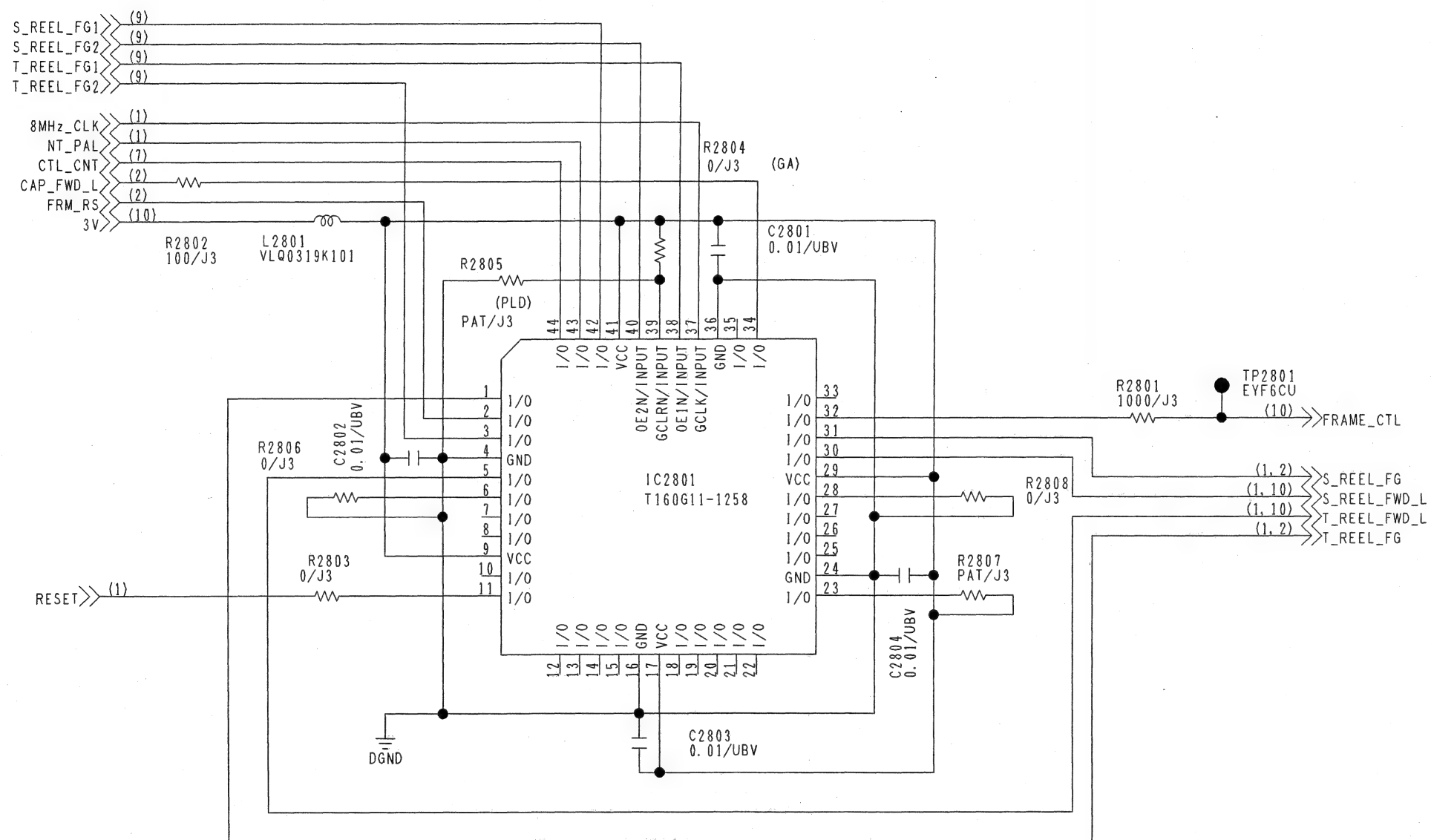
COMPONENT NAME	VIDEO I/O 1394(CONNECTOR)	01/10
CIRCUIT BOARD NO.	VEP03E54B	MODEL NO.
		AJ-D230H
		SCM028





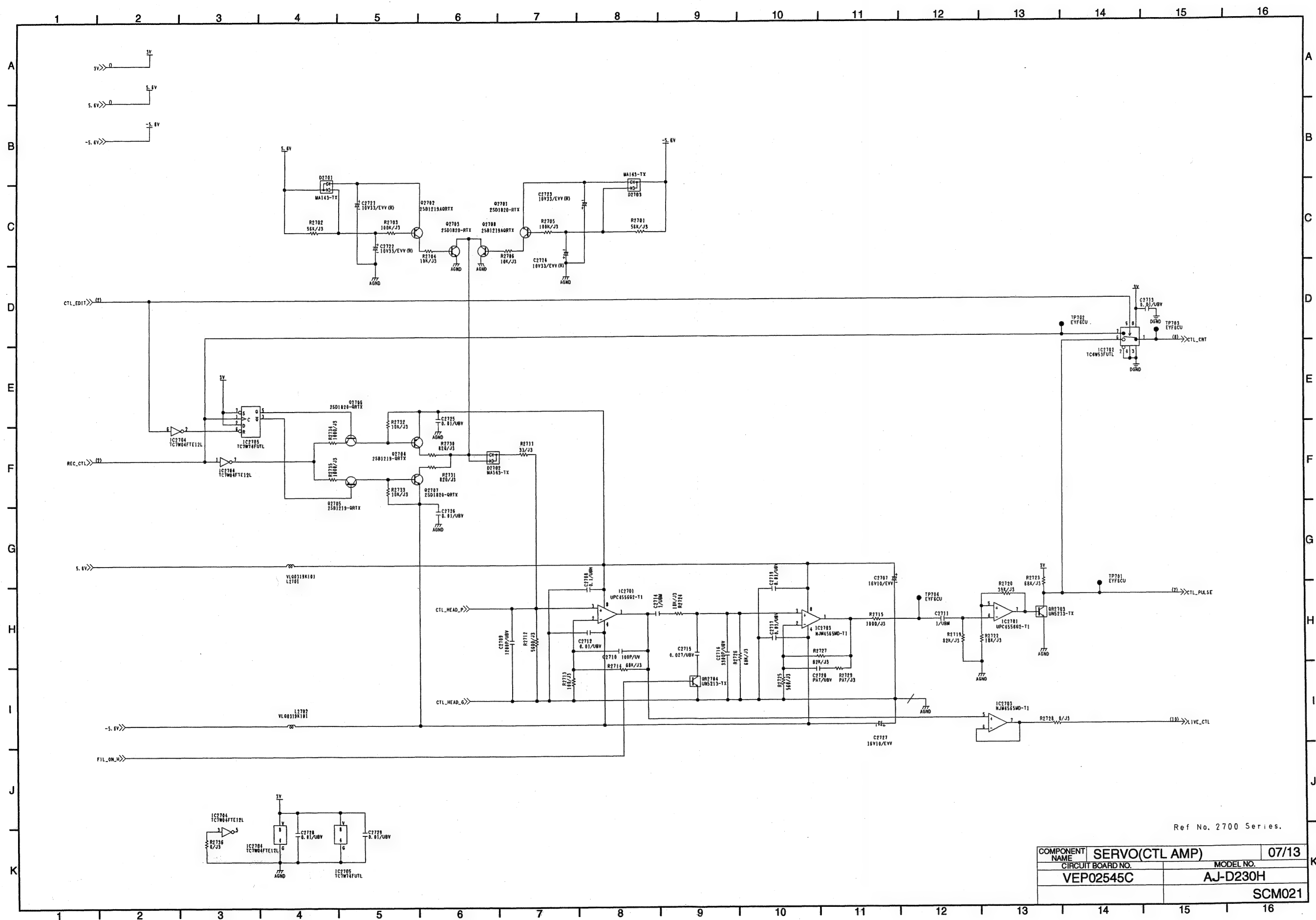


COMPONENT NAME	SERVO(REEL SERVO FG AMP)	09/13
CIRCUIT BOARD NO.	VEP02545C	MODEL NO.
		AJ-D230H
		SCM023



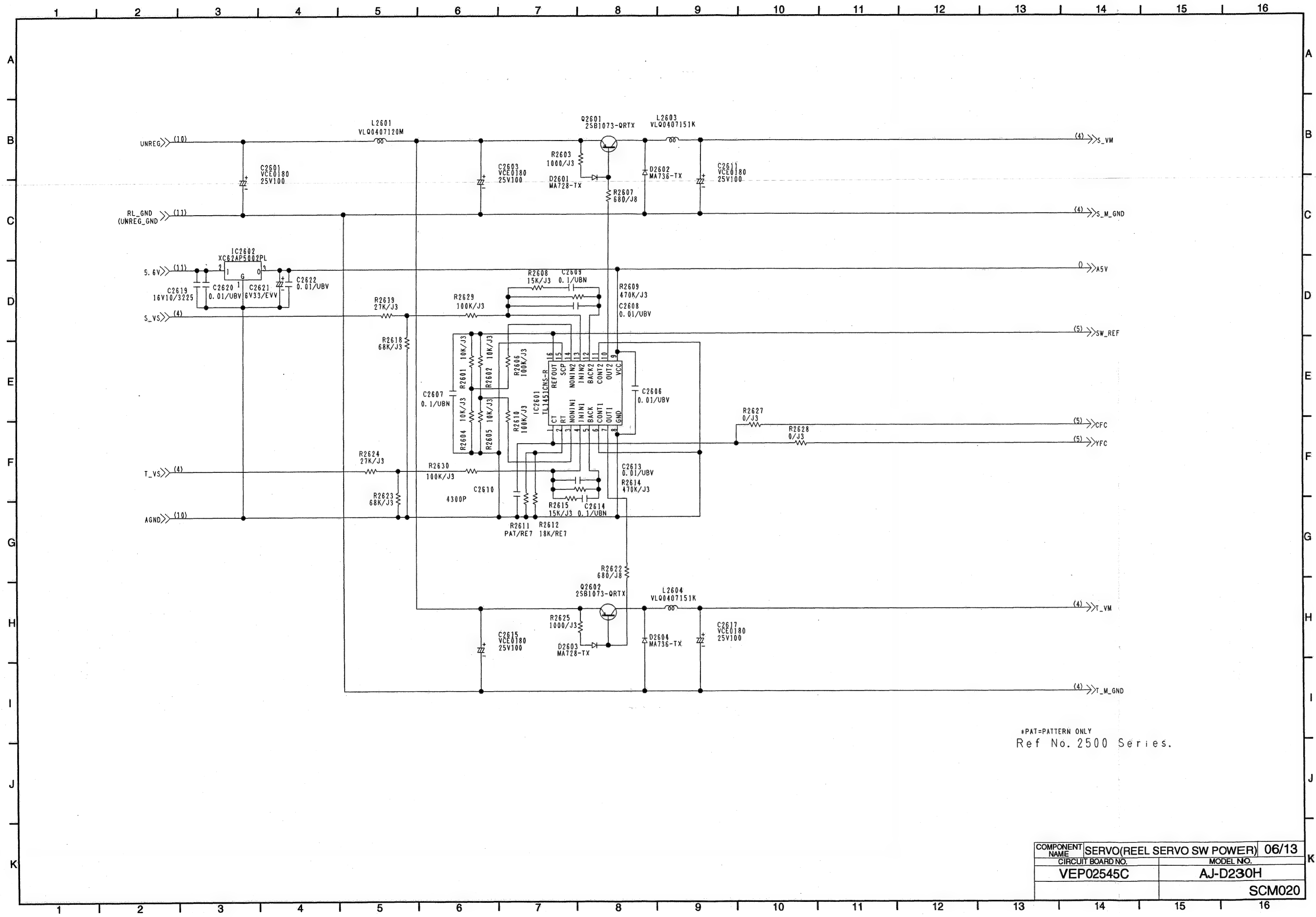
Ref No. 2800 Series.

COMPONENT NAME	SERVO(FRAME CTL)	08/13
CIRCUIT BOARD NO.	VEP02545C	MODEL NO. AJ-D230H
		SCM022



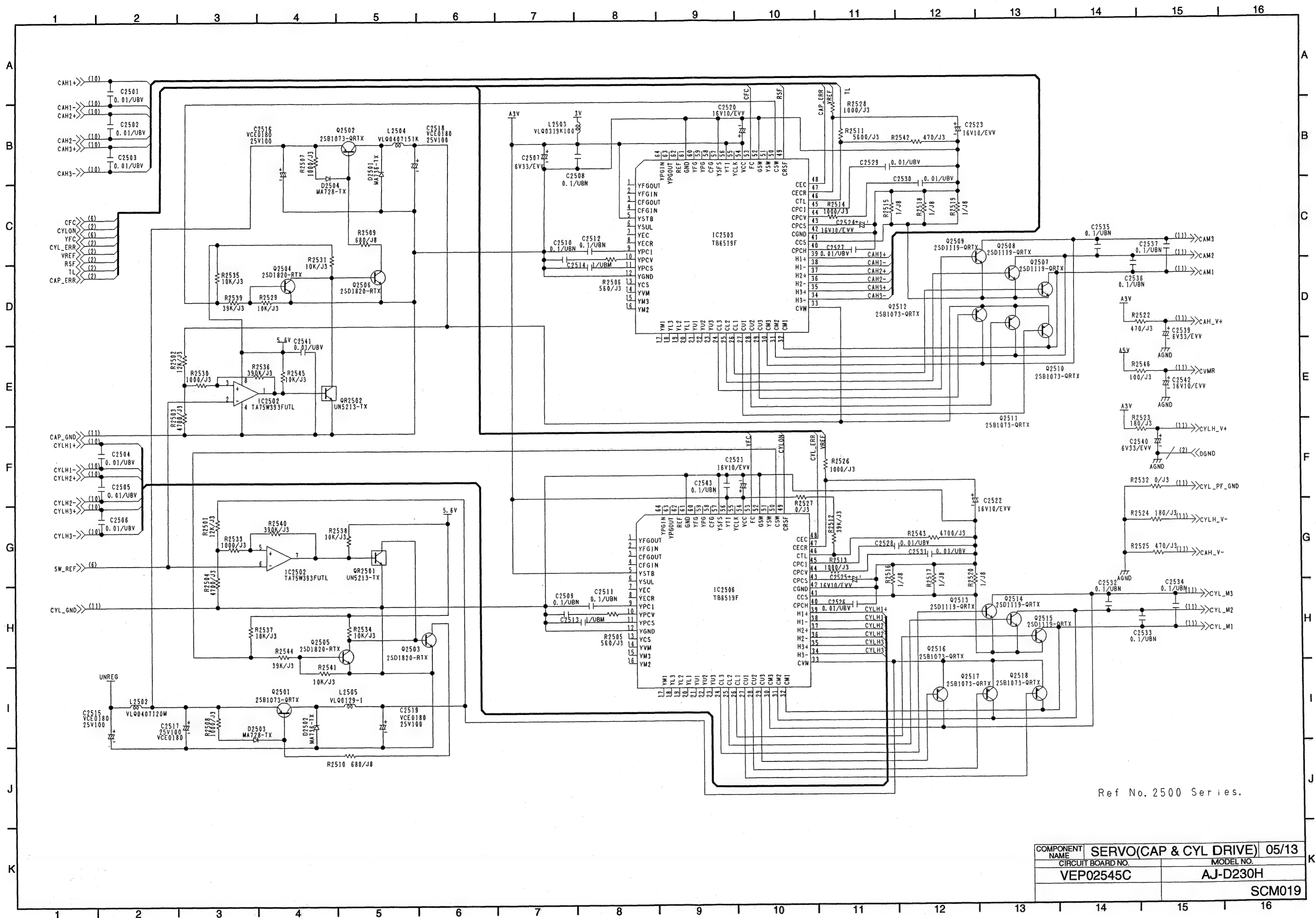
Ref No. 2700 Series.

COMPONENT NAME	SERVO(CTL AMP)	07/13
CIRCUIT BOARD NO.	MODEL NO.	
VEP02545C	AJ-D230H	
	SCM021	

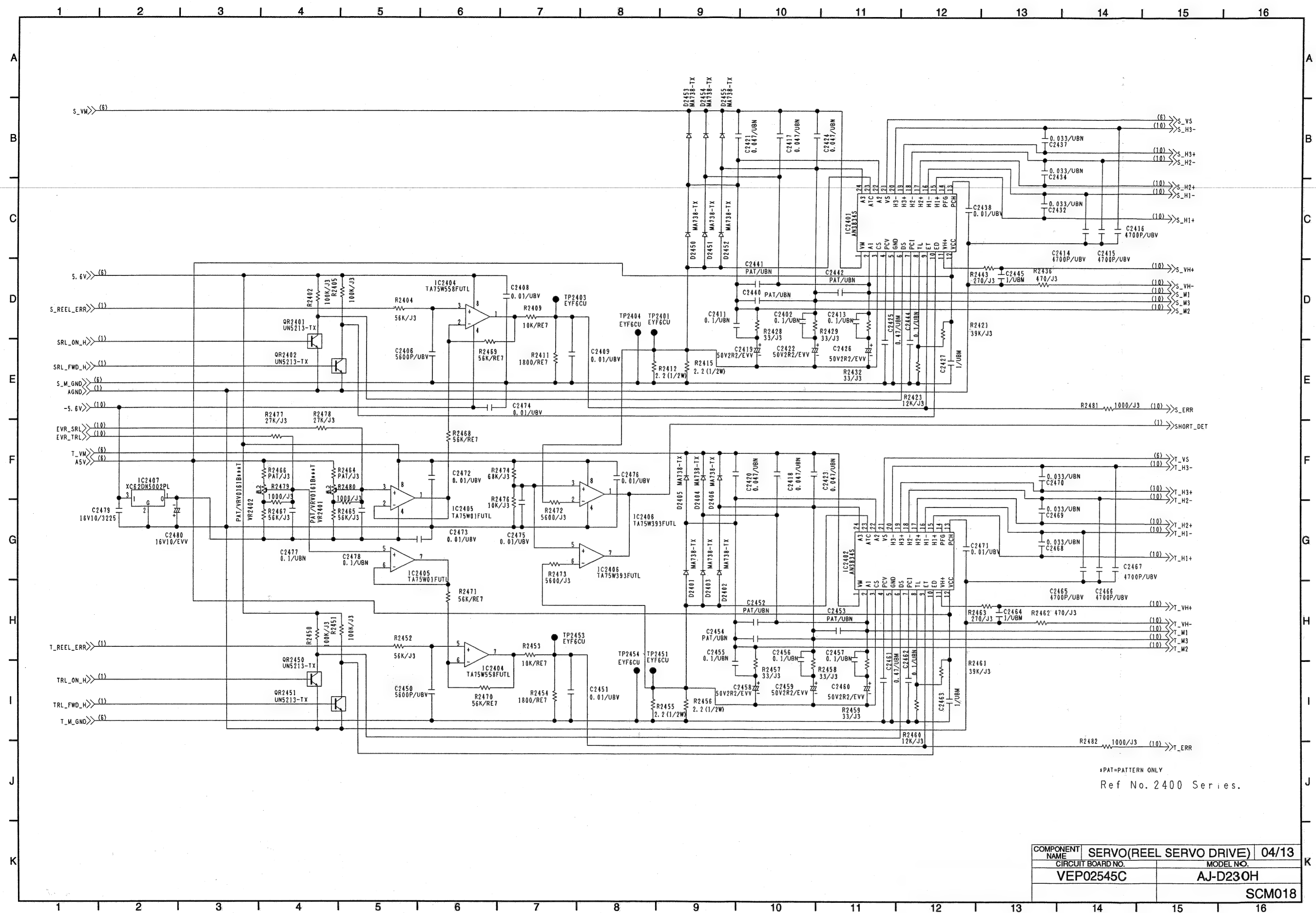


*PAT=PATTERN ONLY
Ref No. 2500 Series.

COMPONENT NAME	SERVO(REEL SERVO SW POWER)	06/13
CIRCUIT BOARD NO.	VEP02545C	MODEL NO. AJ-D230H
		SCM020

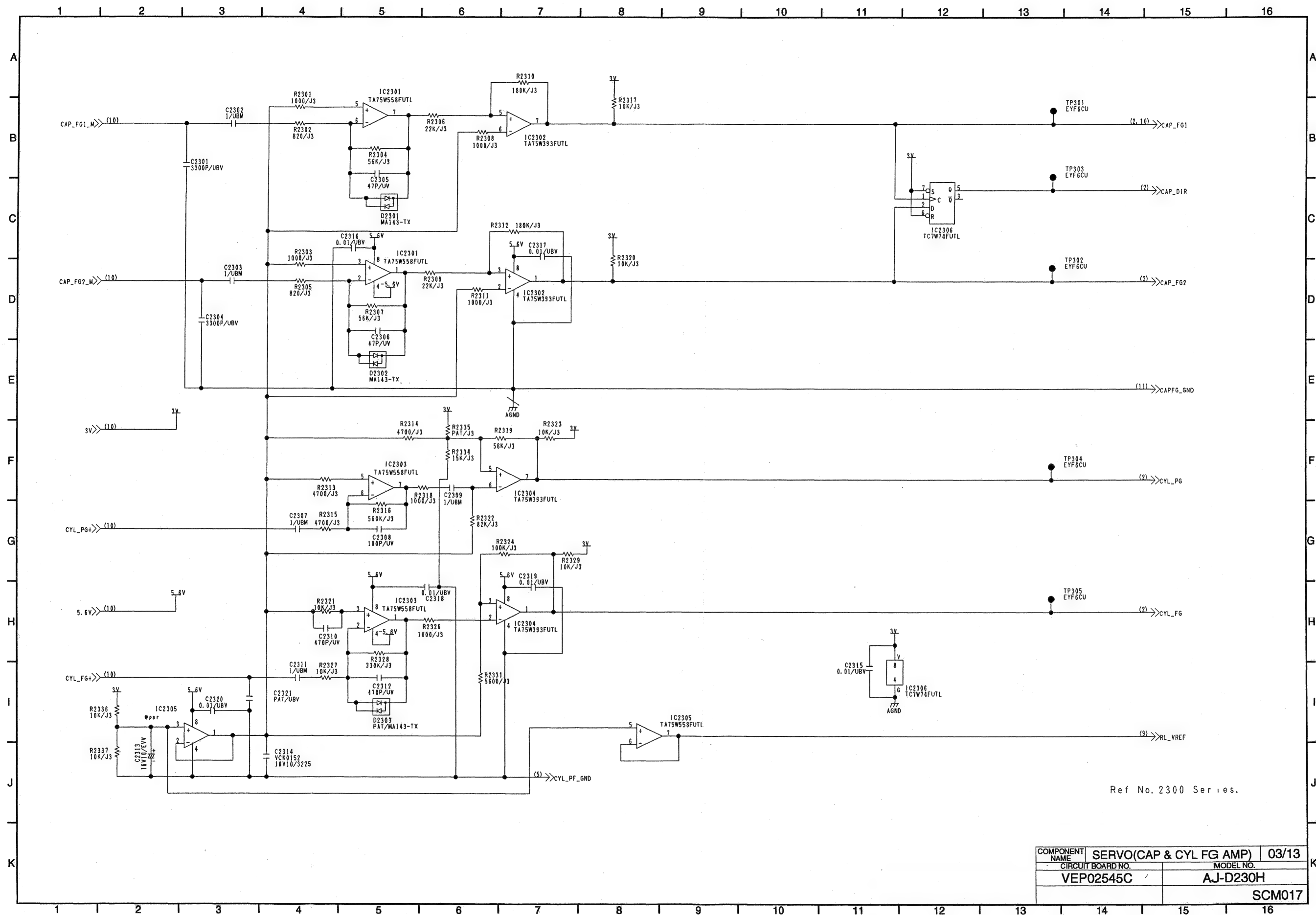


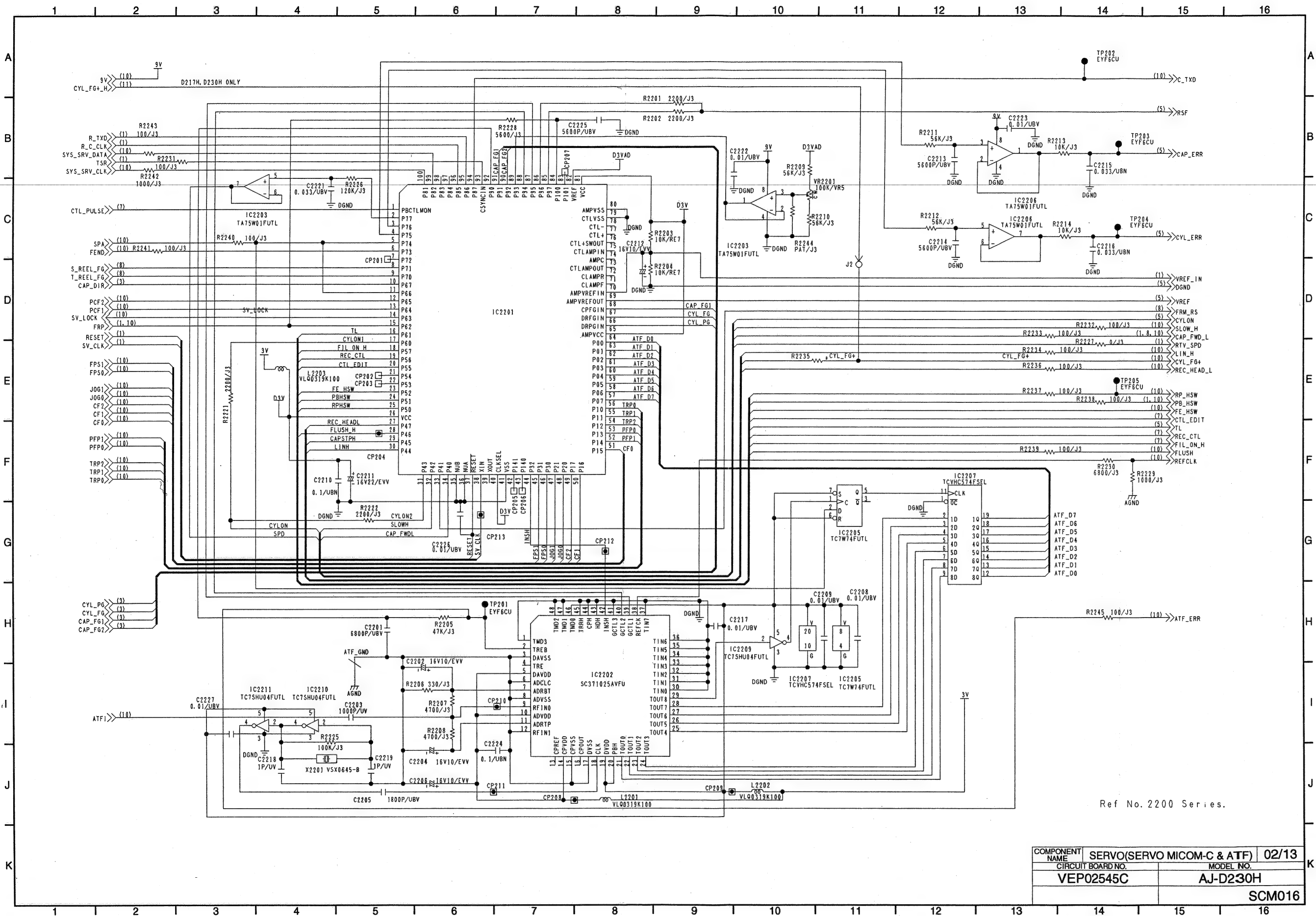
COMPONENT NAME	SERVO(CAP & CYL DRIVE)	05/13
CIRCUIT BOARD NO.	VEP02545C	MODEL NO.
	AJ-D230H	
	SCM019	



*PAT=PATTERN ONLY
Ref No. 2400 Series.

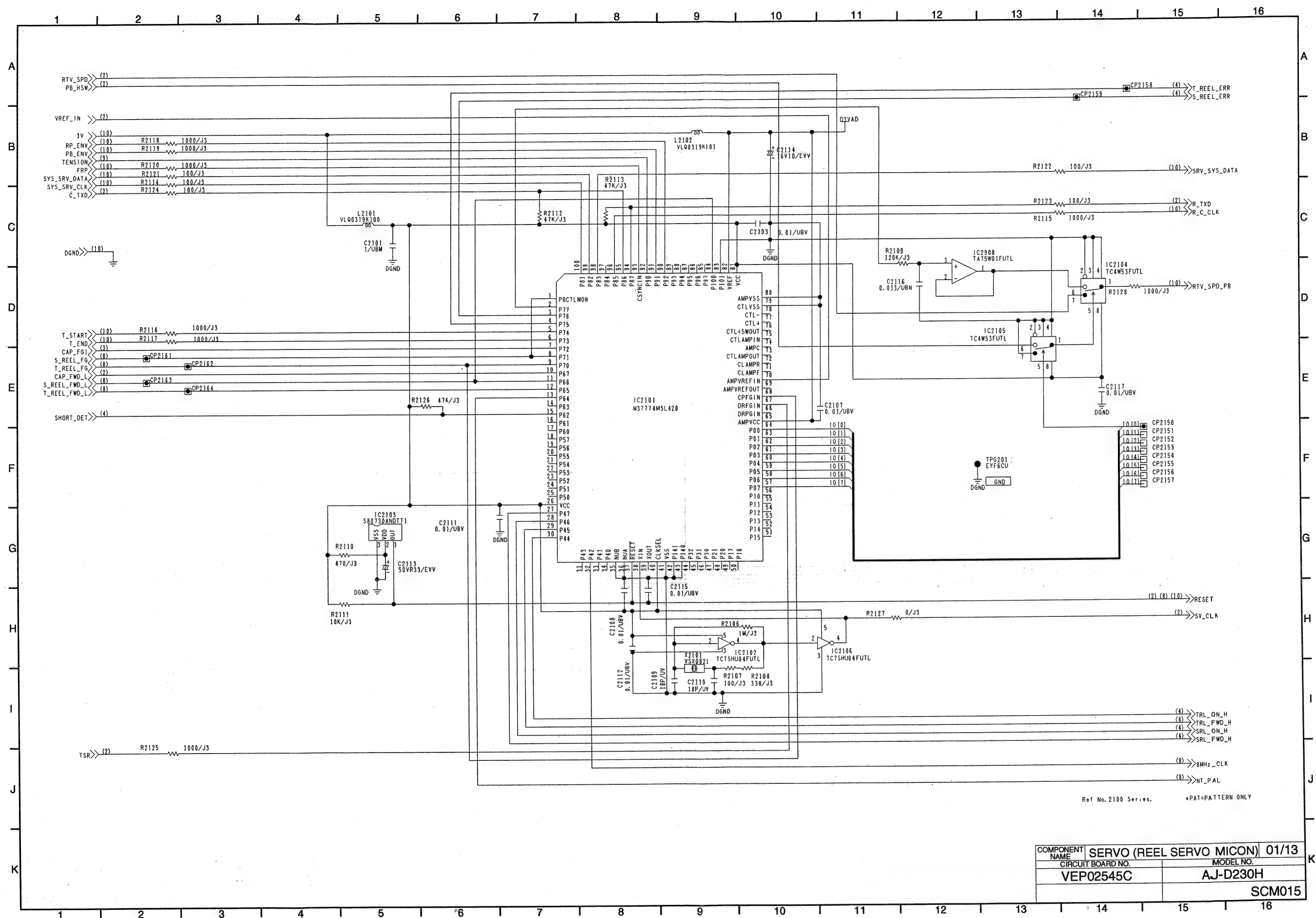
COMPONENT NAME	SERVO(REEL SERVO DRIVE)	04/13
CIRCUIT BOARD NO.	VEP02545C	MODEL NO. AJ-D230H
		SCM018

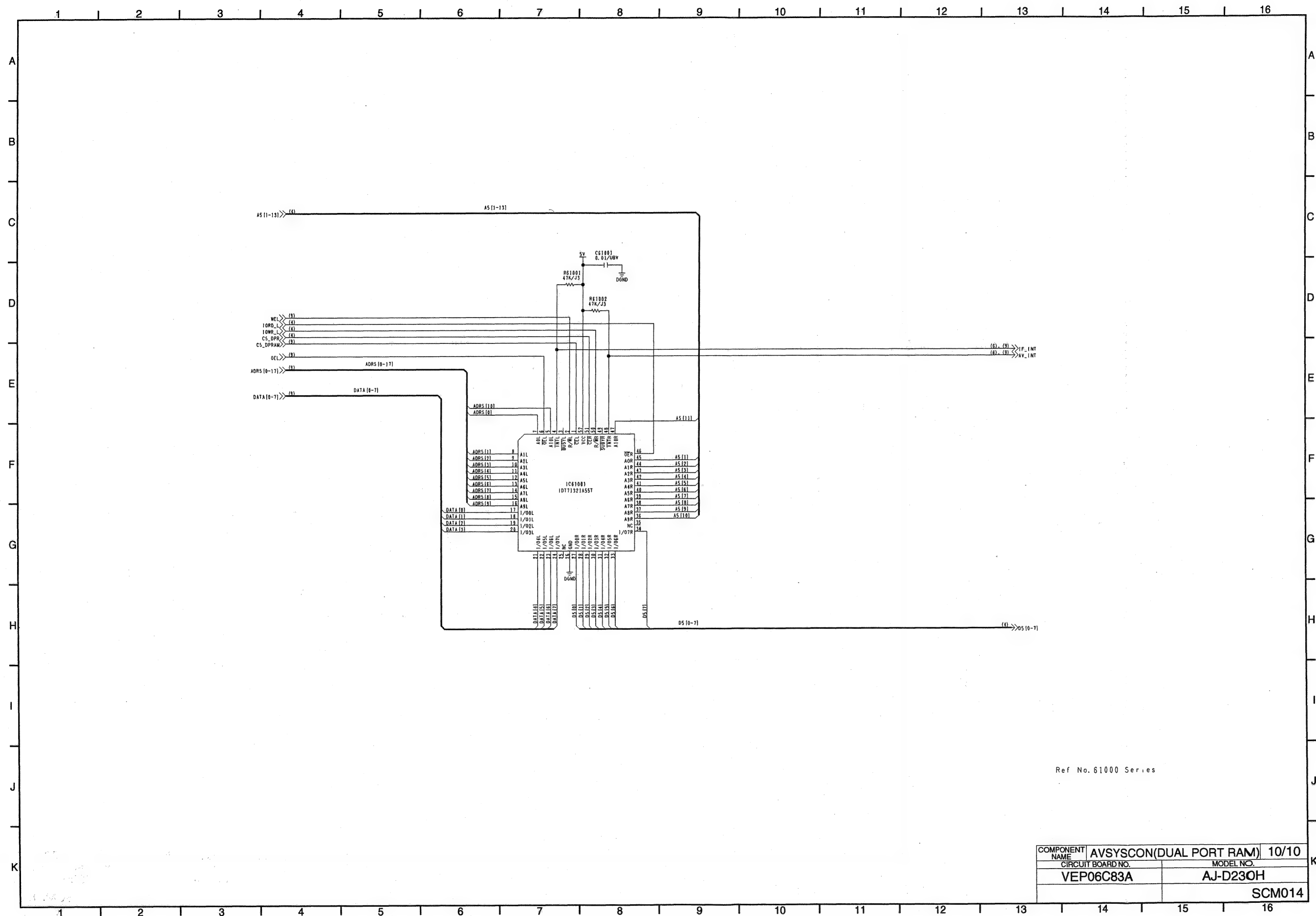


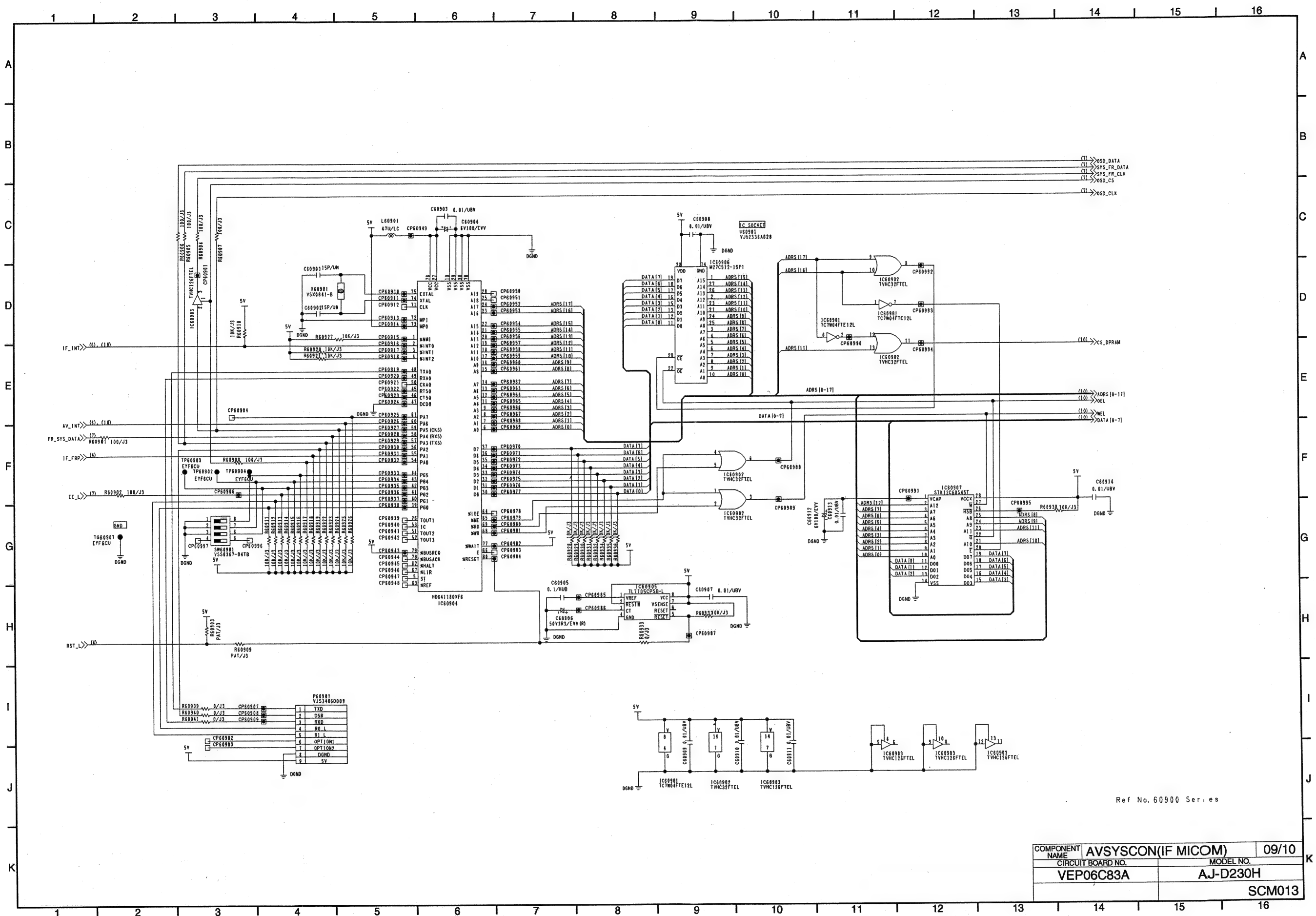


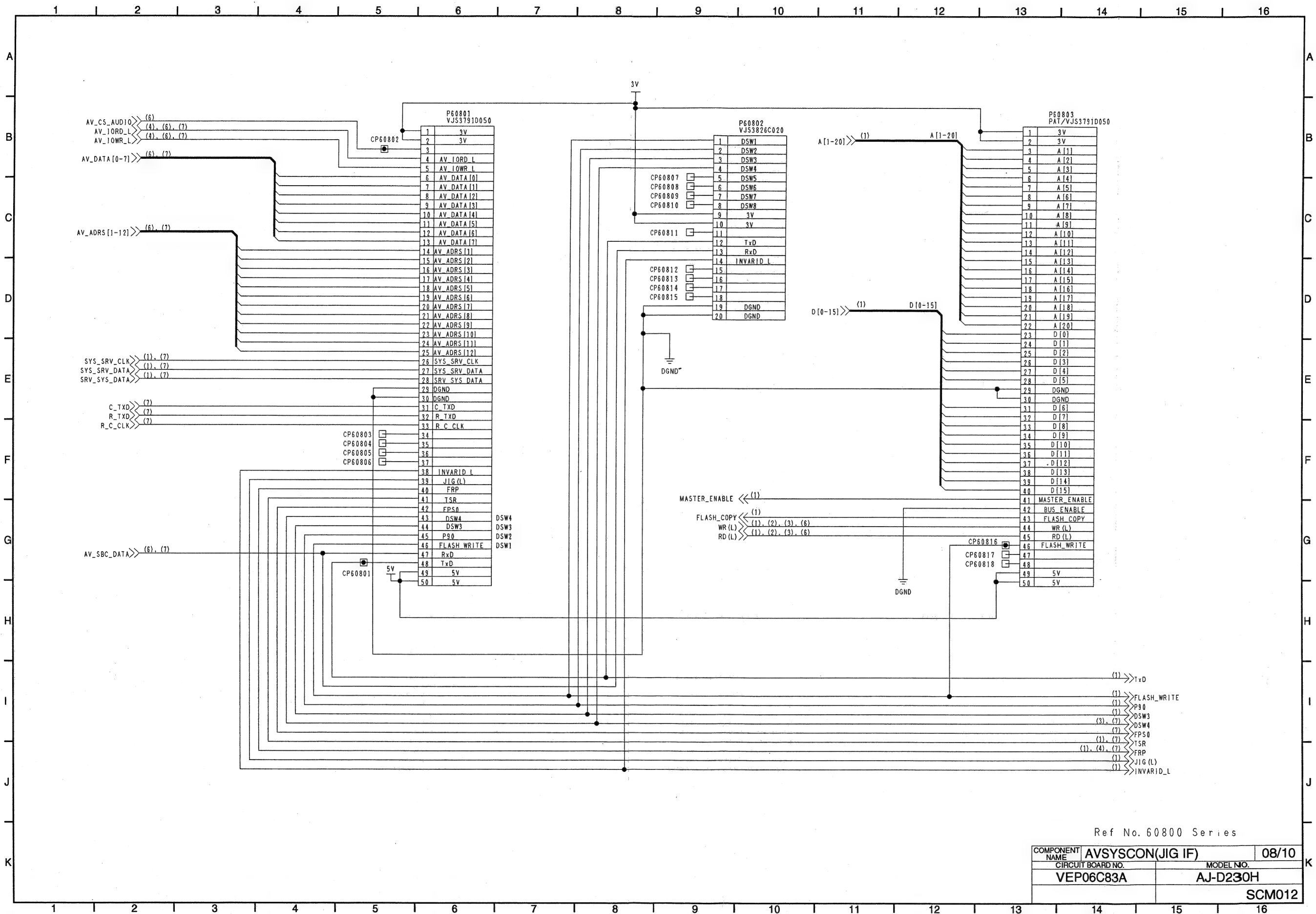
Ref No. 2200 Series.

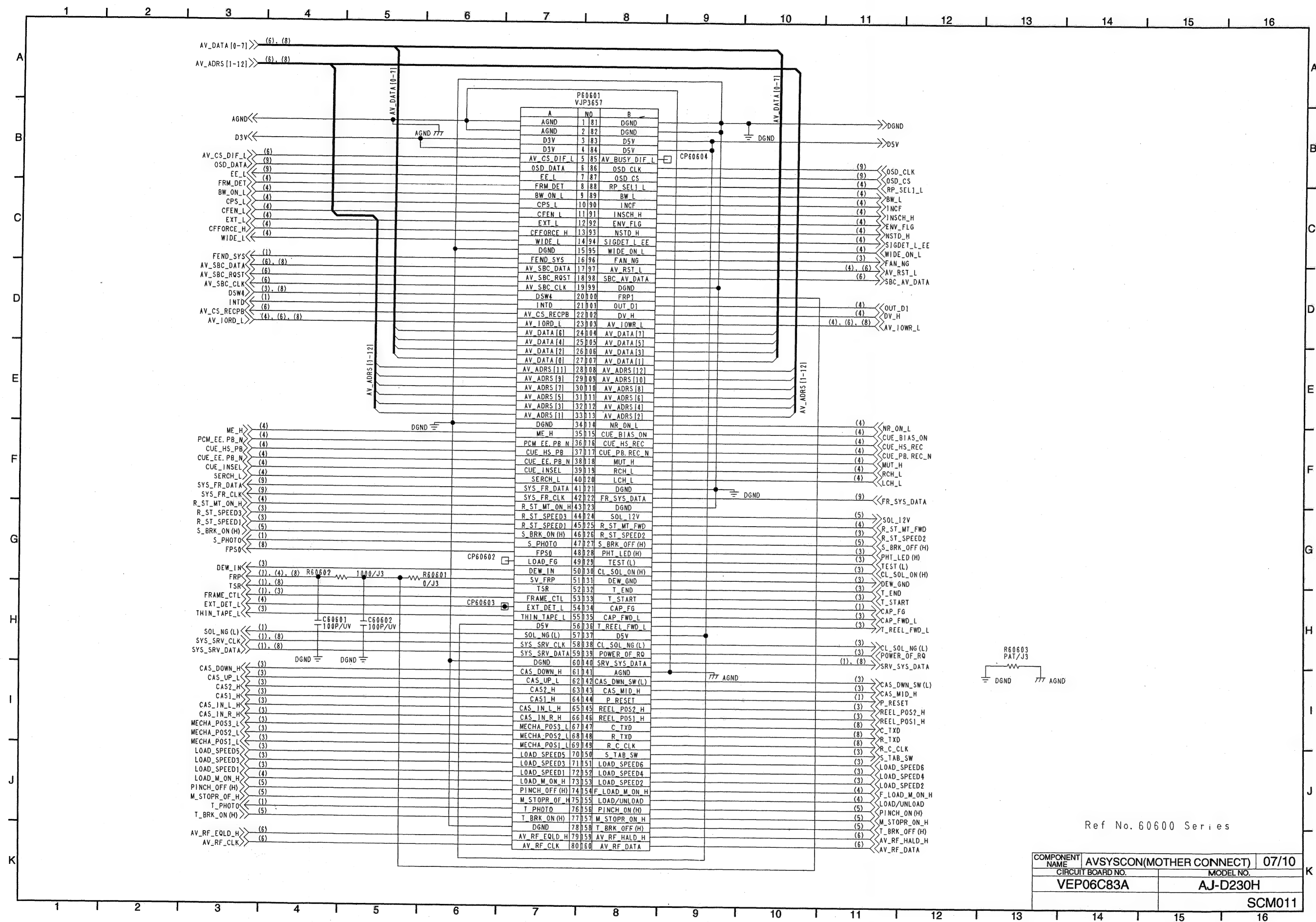
COMPONENT NAME	SERVO(SERVO MICOM-C & ATF)	02/13
CIRCUIT BOARD NO.	VEP02545C	MODEL NO.
		AJ-D230H
		SCM016

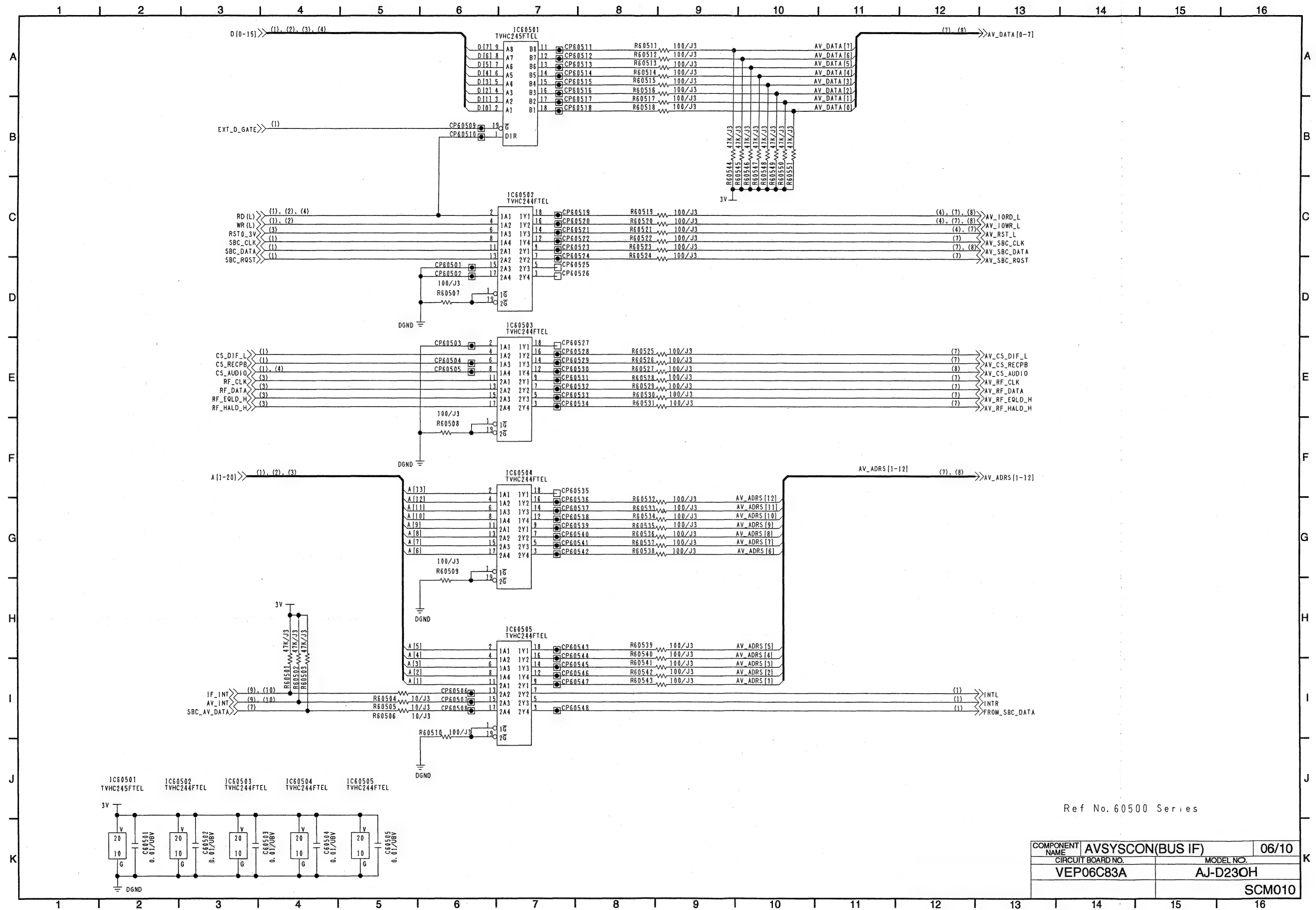


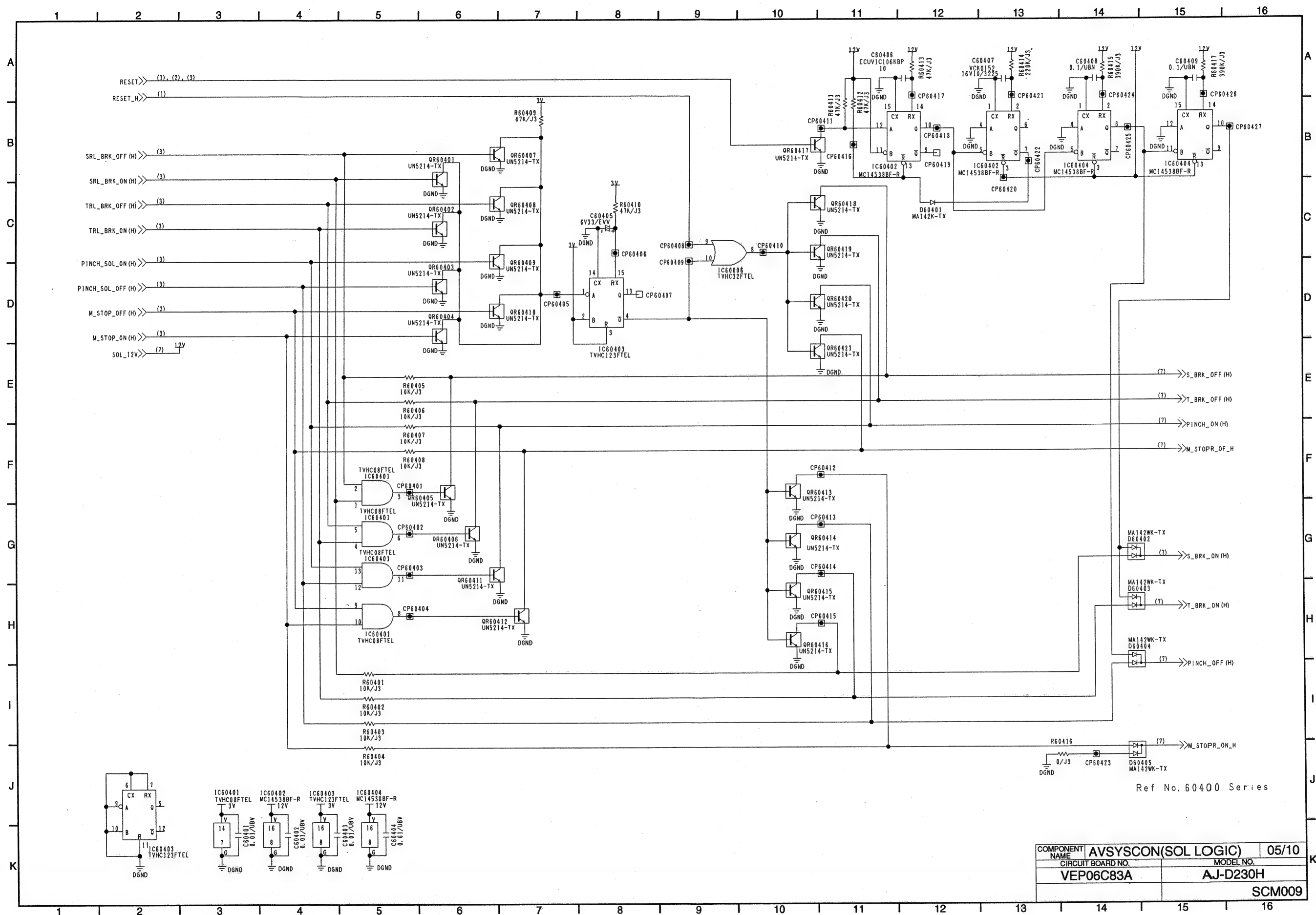


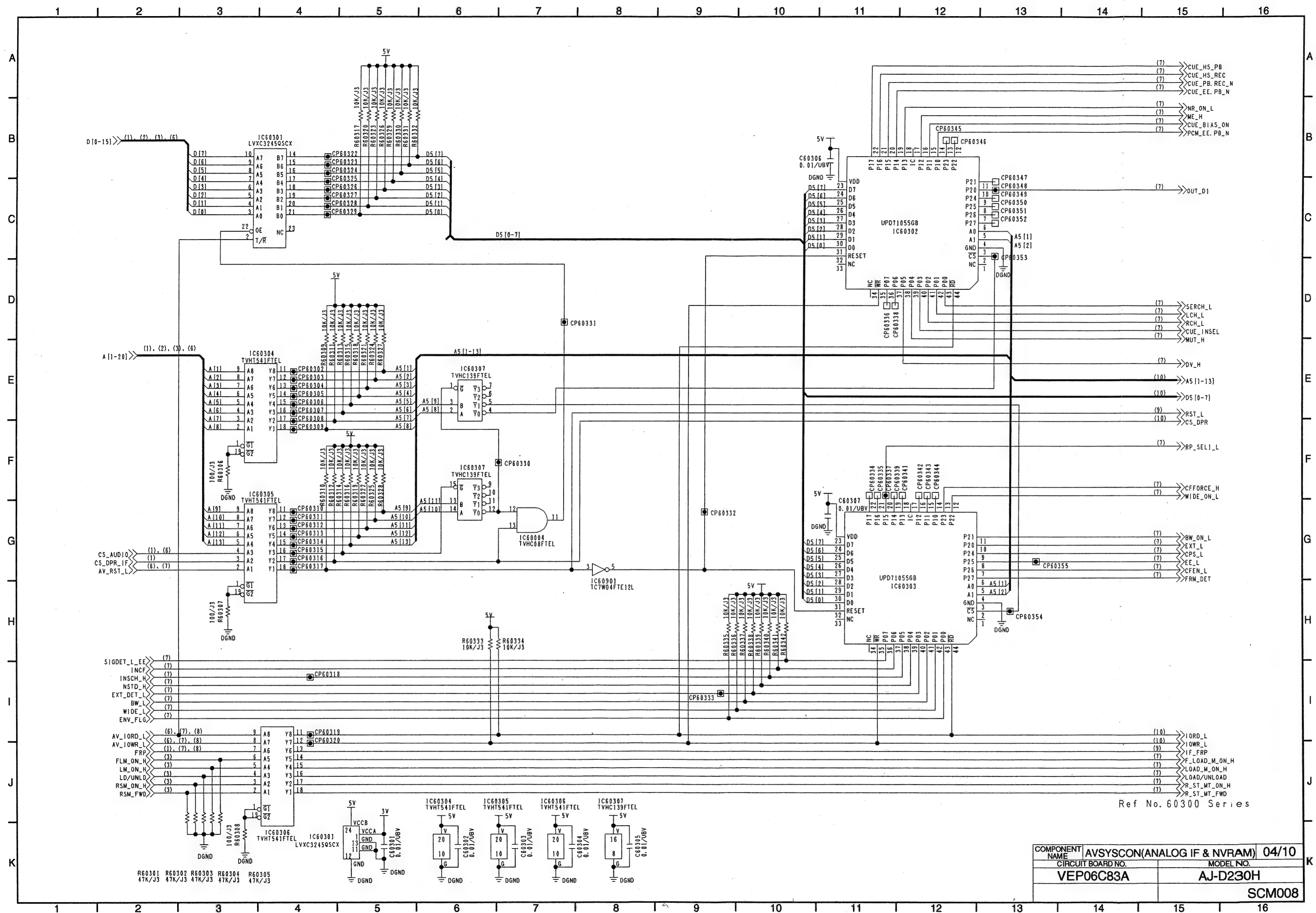






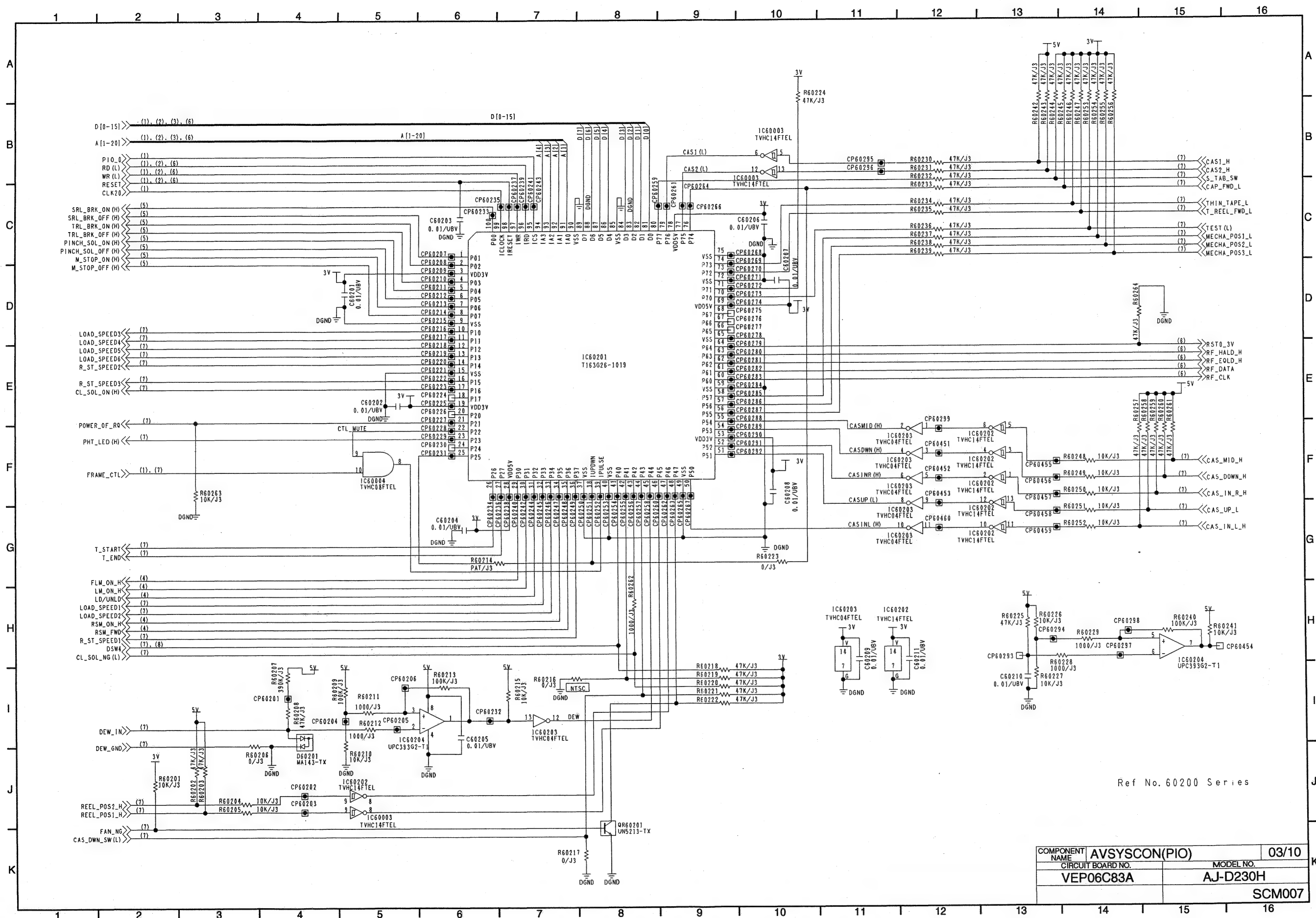


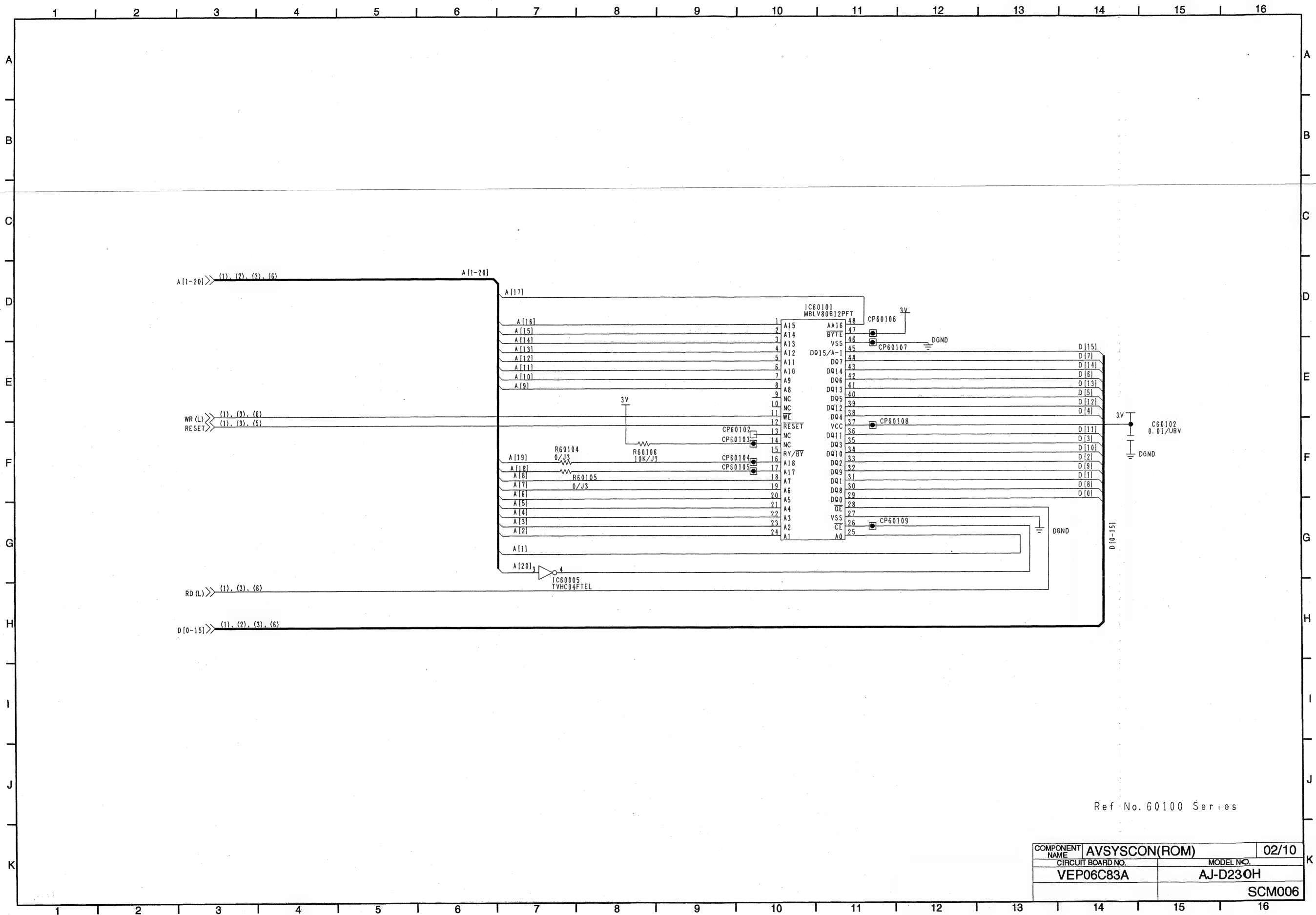




Ref No. 60300 Series

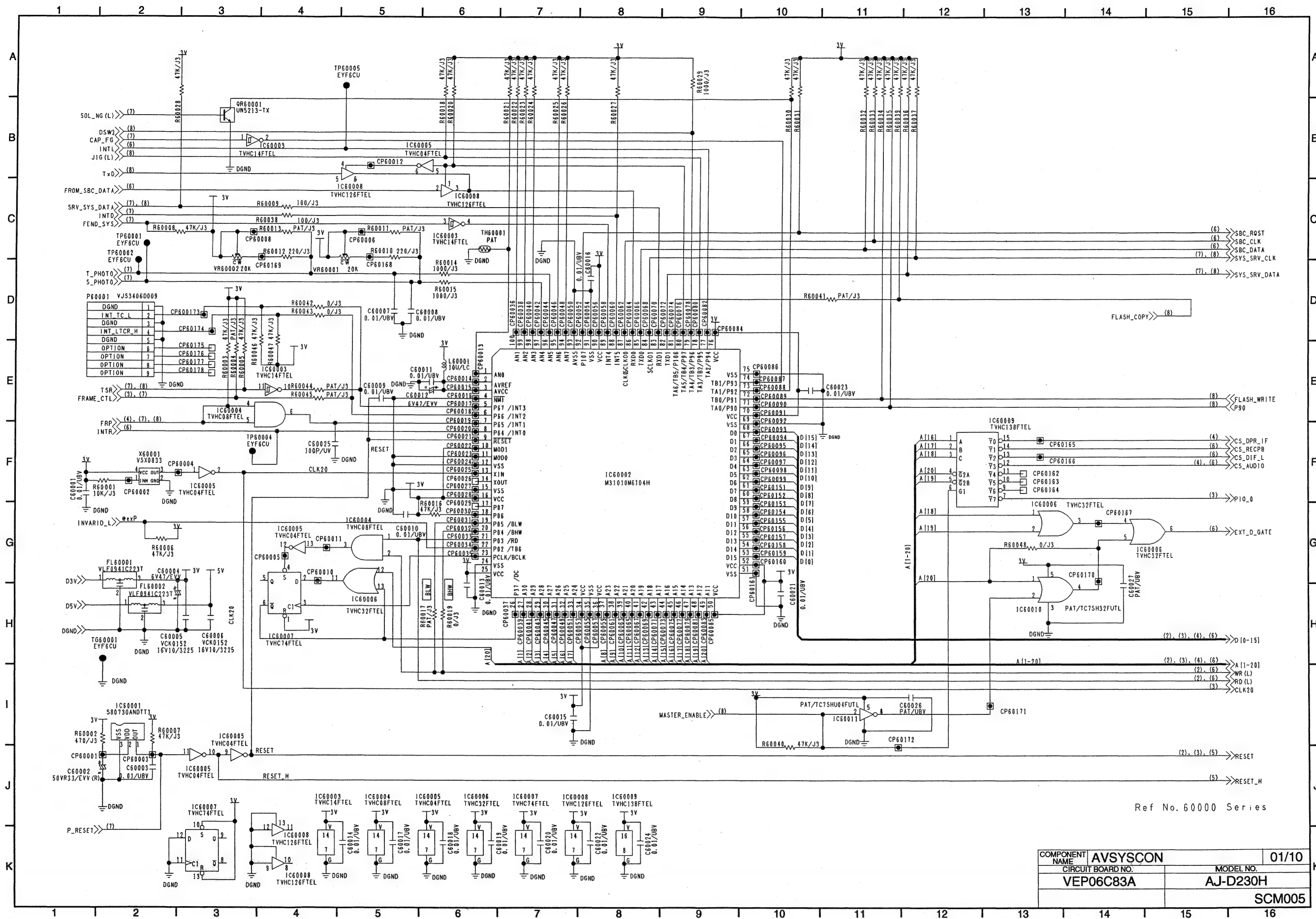
COMPONENT NAME	AVSYSICON(ANALOG IF & NVRAM)	04/10
CIRCUIT BOARD NO.	VEP06C83A	MODEL NO.
		AJ-D230H
		SCM008





Ref No. 60100 Series

COMPONENT NAME	AVSYSCON(ROM)	02/10
CIRCUIT BOARD NO.	VEP06C83A	MODEL NO. AJ-D230H
		SCM006



Ref No. 60000 Series

COMPONENT NAME	AVSYSCON	01/10
CIRCUIT BOARD NO.	MODEL NO.	
VEP06C83A	AJ-D230H	
	SCM005	




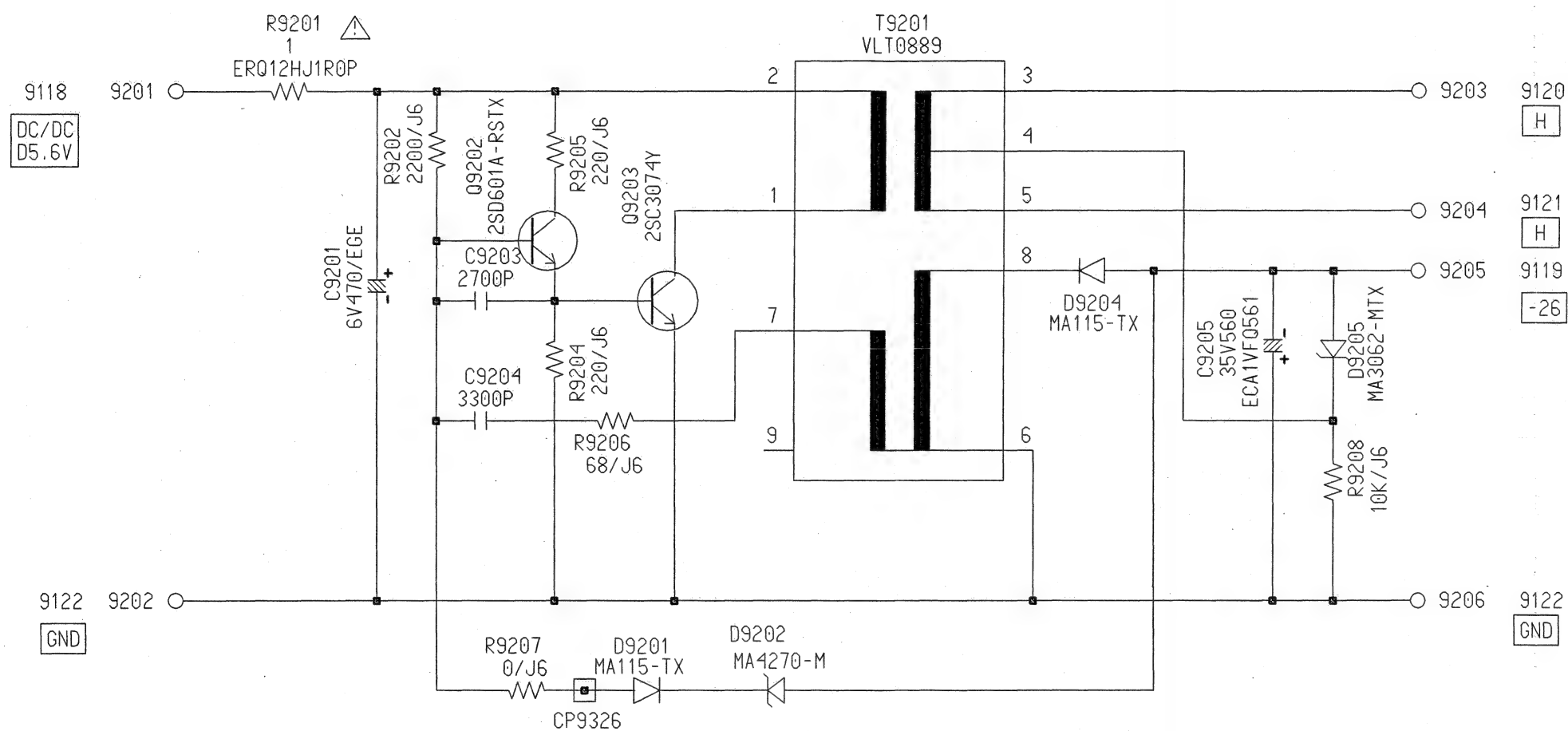
警告

印の部品は安全上重要な部品です。
交換するときは、安全および性能維持の
ため必ず指定の部品をご使用ください。

JAPAN ONLY

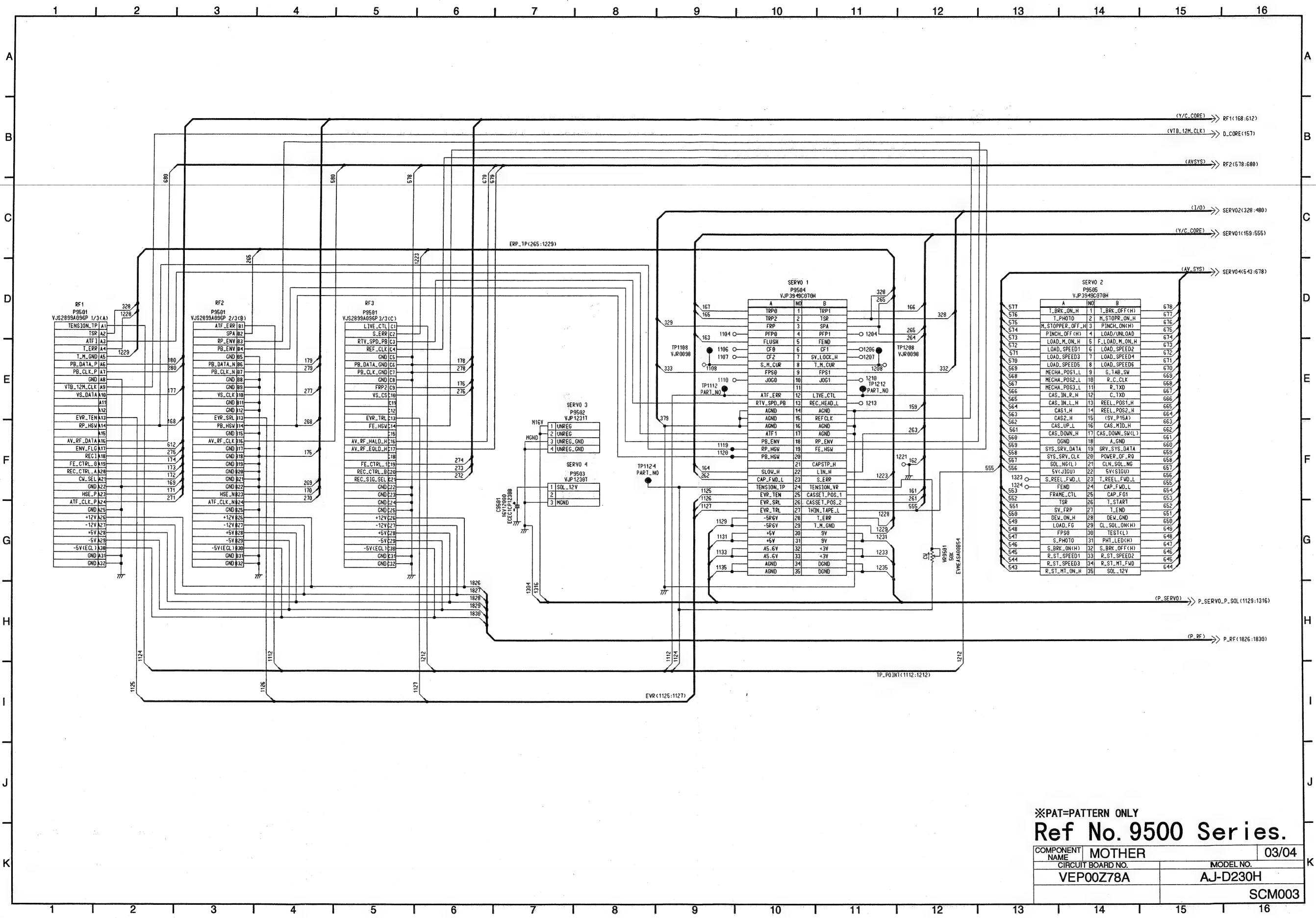
IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



Ref No. 9200 Series.

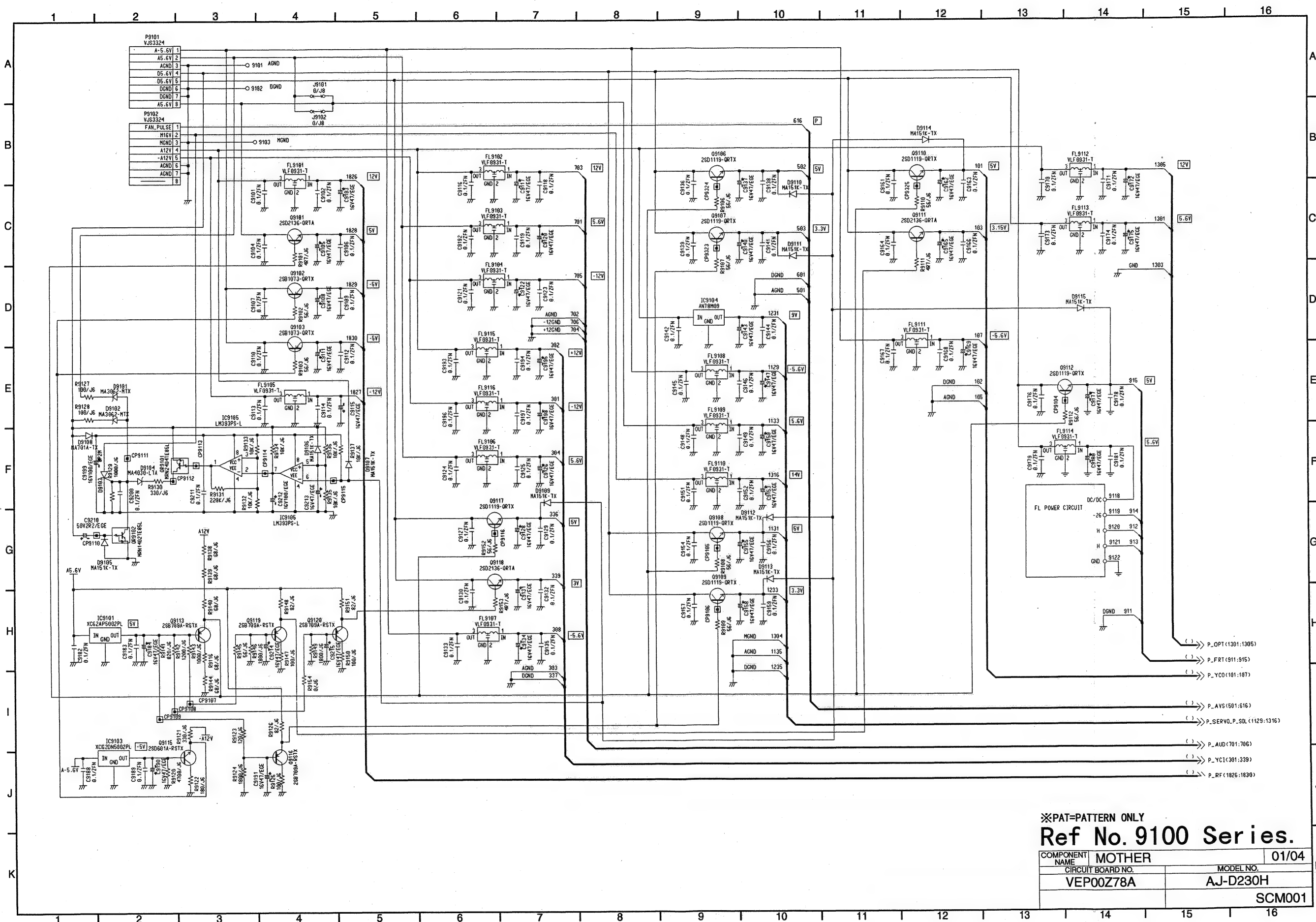
COMPONENT NAME	MOTHER	04/04
CIRCUIT BOARD NO.	VEP00Z78A	MODEL NO. AJ-D230H
		SCM004



※PAT=PATTERN ONLY

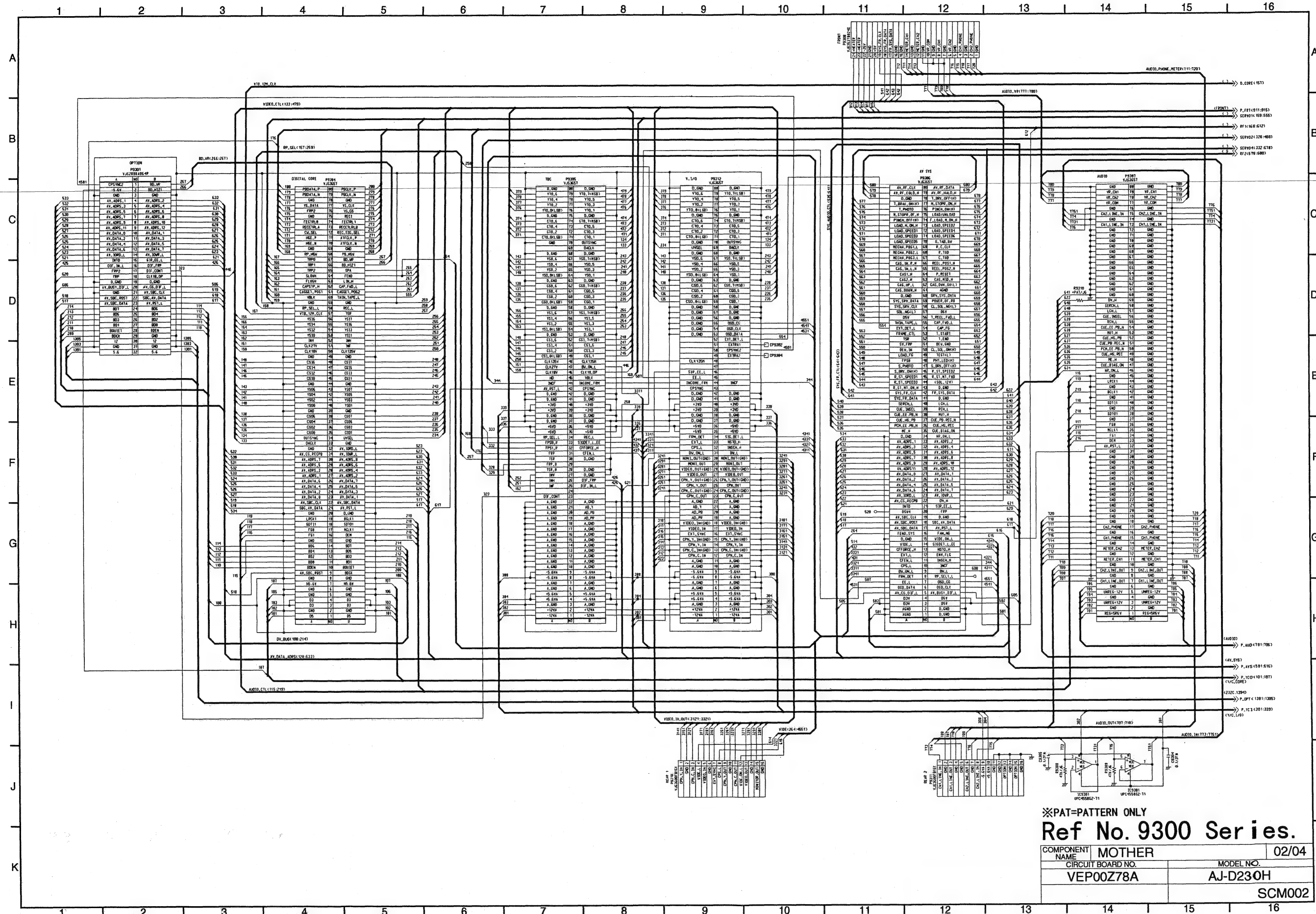
Ref No. 9500 Series.

COMPONENT NAME	MOTHER	03/04
CIRCUIT BOARD NO.	VEP00Z78A	MODEL NO. AJ-D230H
SCM003		



※PAT=PATTERN ONLY
Ref No. 9100 Series.

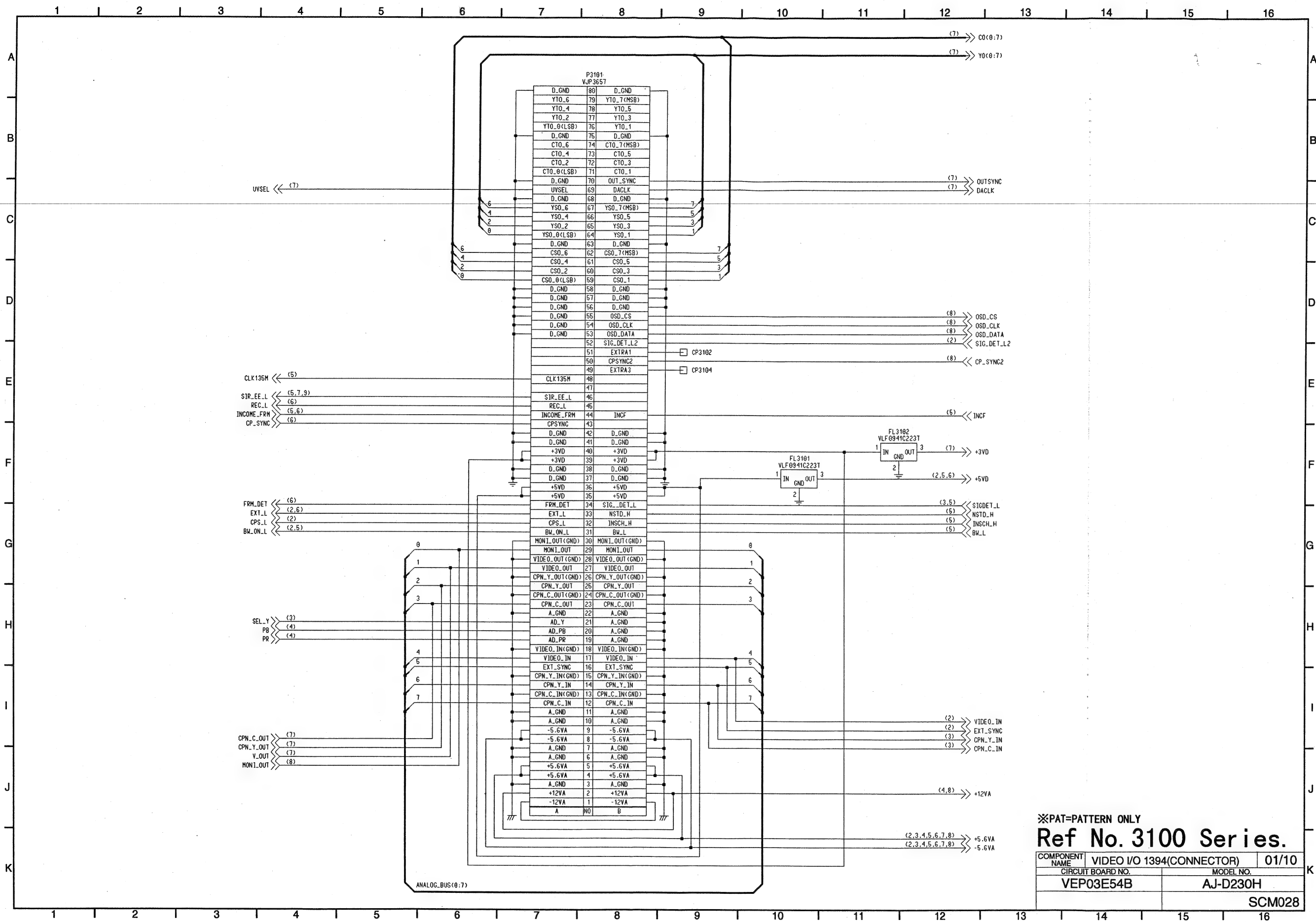
COMPONENT NAME	MOTHER	01/04
CIRCUIT BOARD NO.	VEP00Z78A	MODEL NO. AJ-D230H
		SCM001

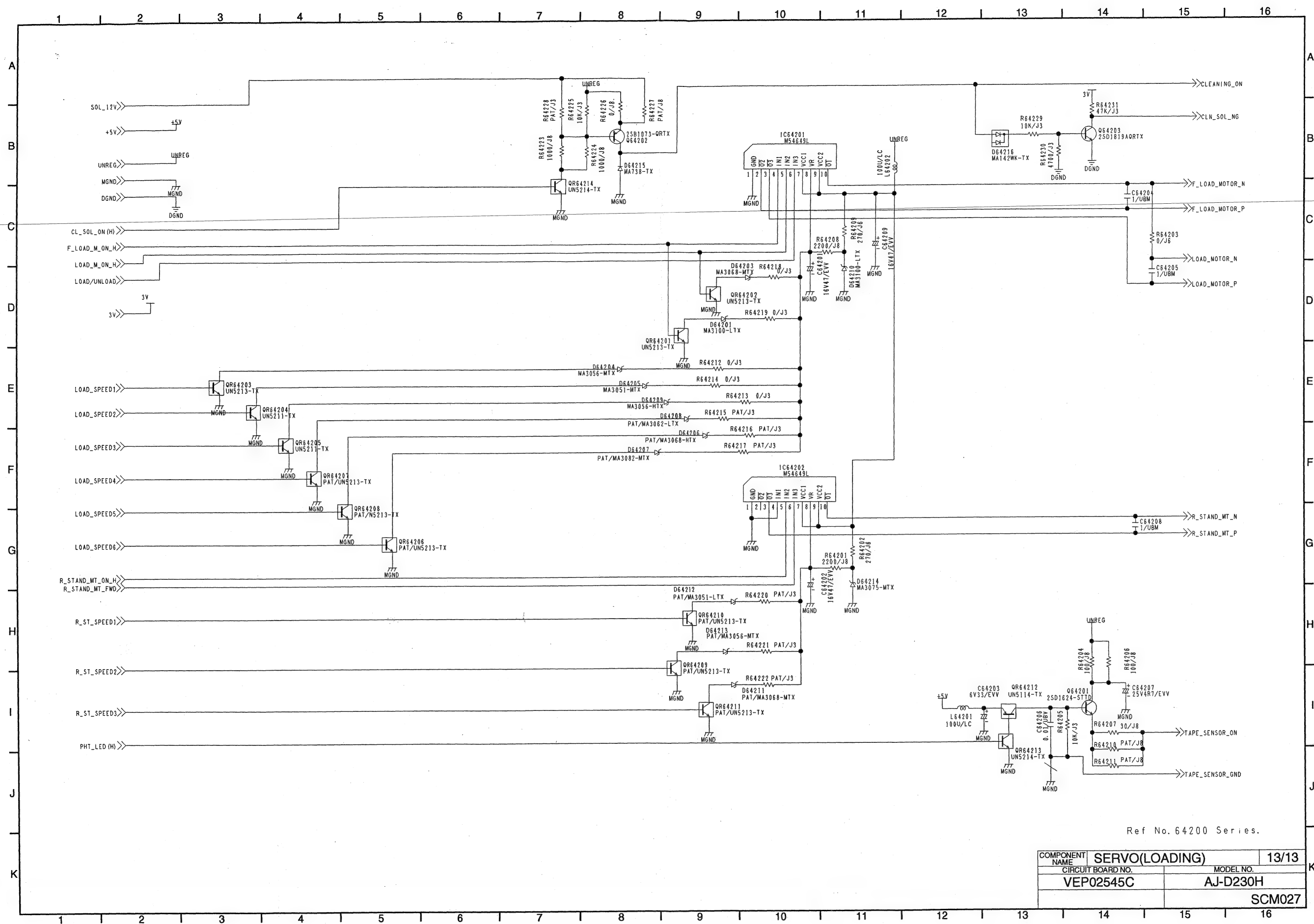


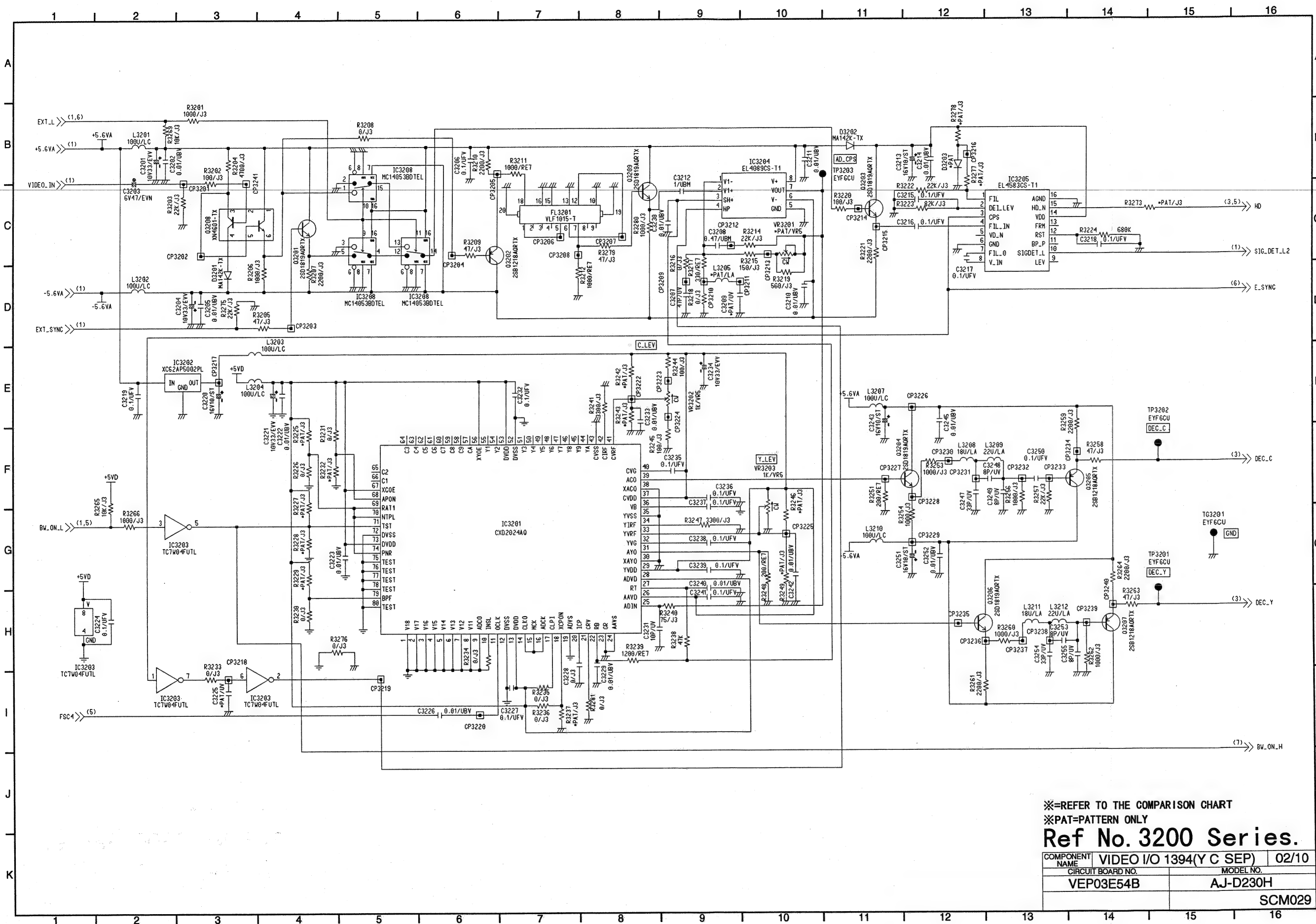
※PAT=Pattern Only

Ref No. 9300 Series.

COMPONENT NAME	MOTHER	02/04
CIRCUIT BOARD NO.	VEP00Z78A	MODEL NO.
		AJ-D230H
		SCM002



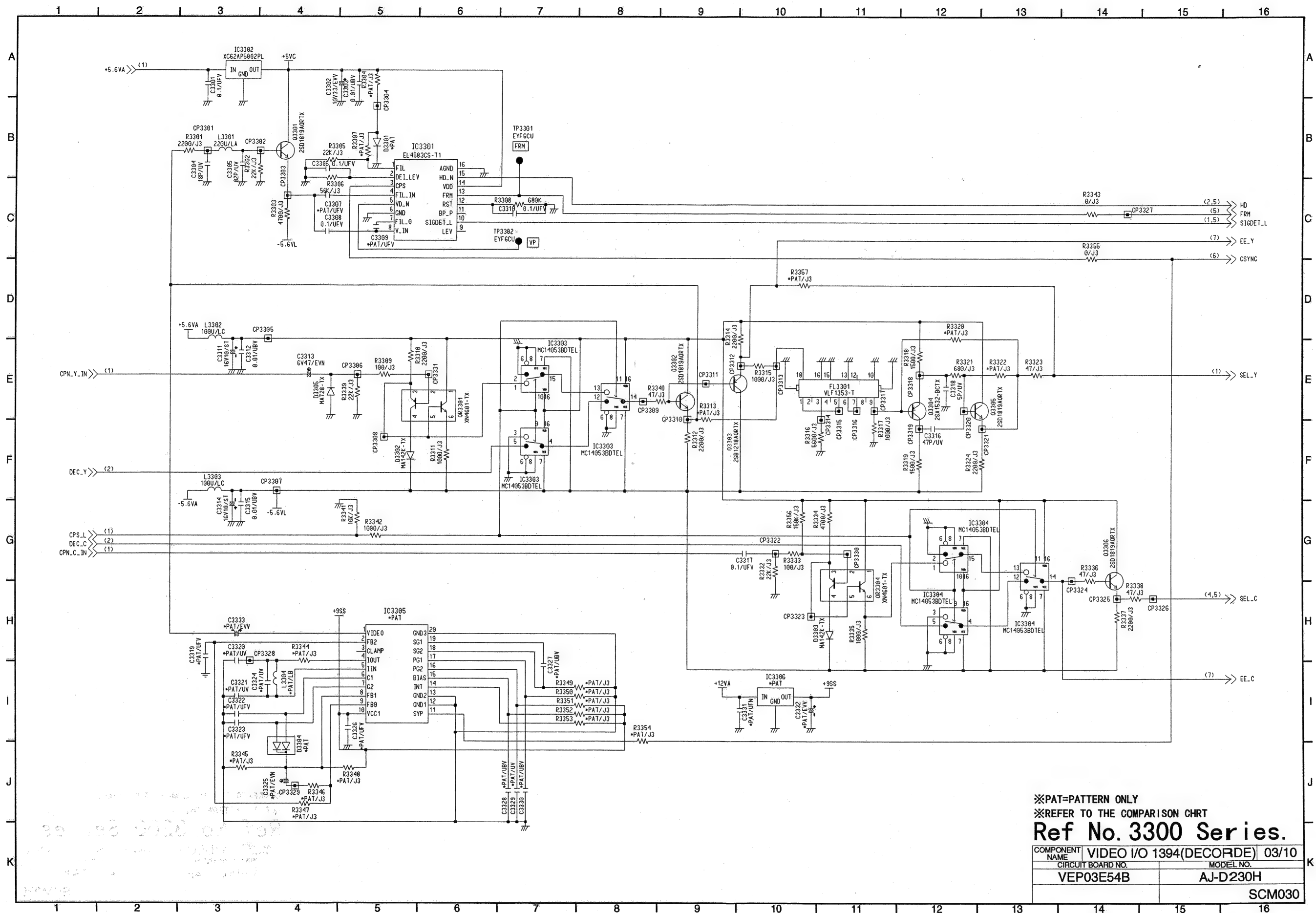




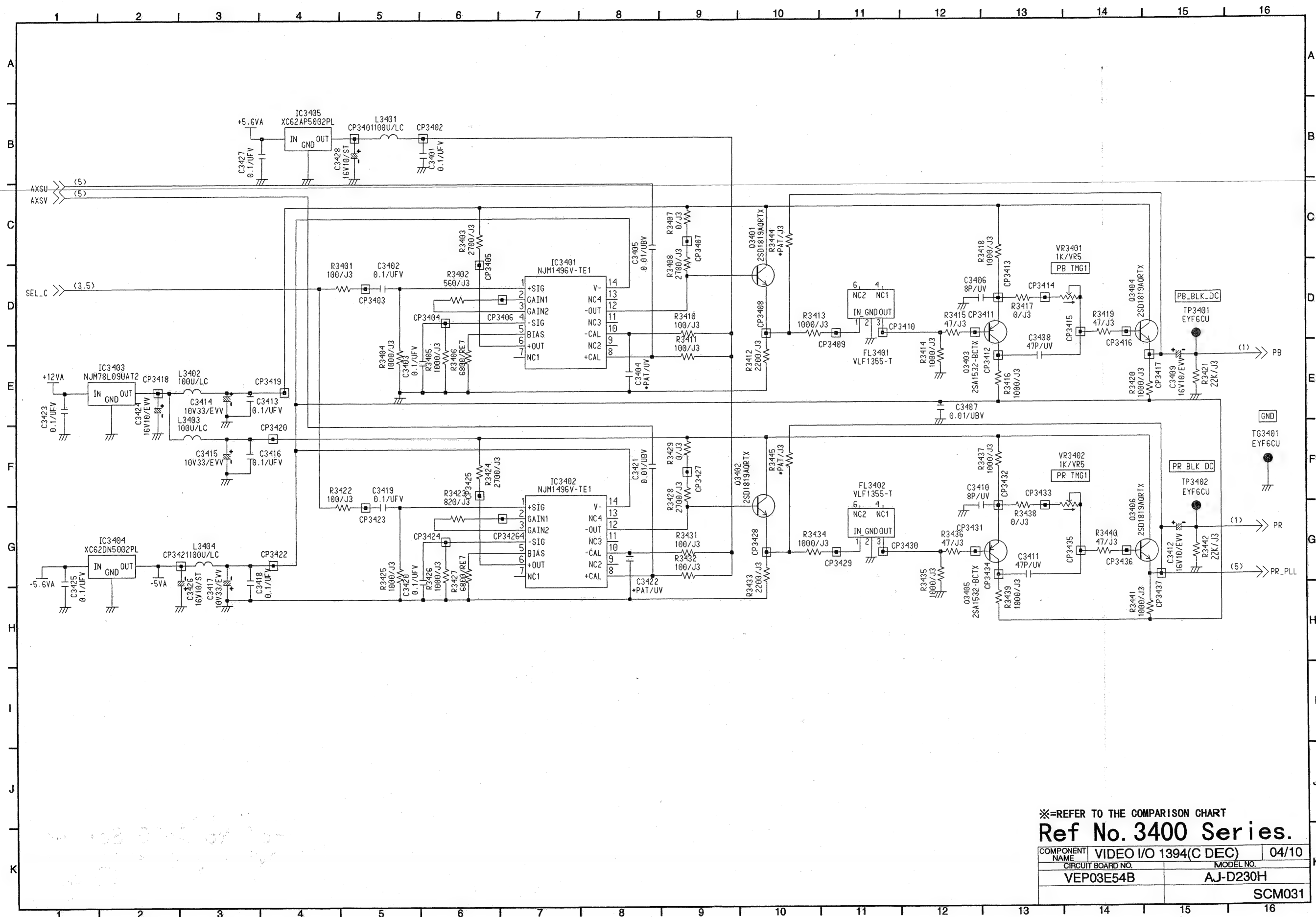
※=REFER TO THE COMPARISON CHART
※PAT= PATTERN ONLY

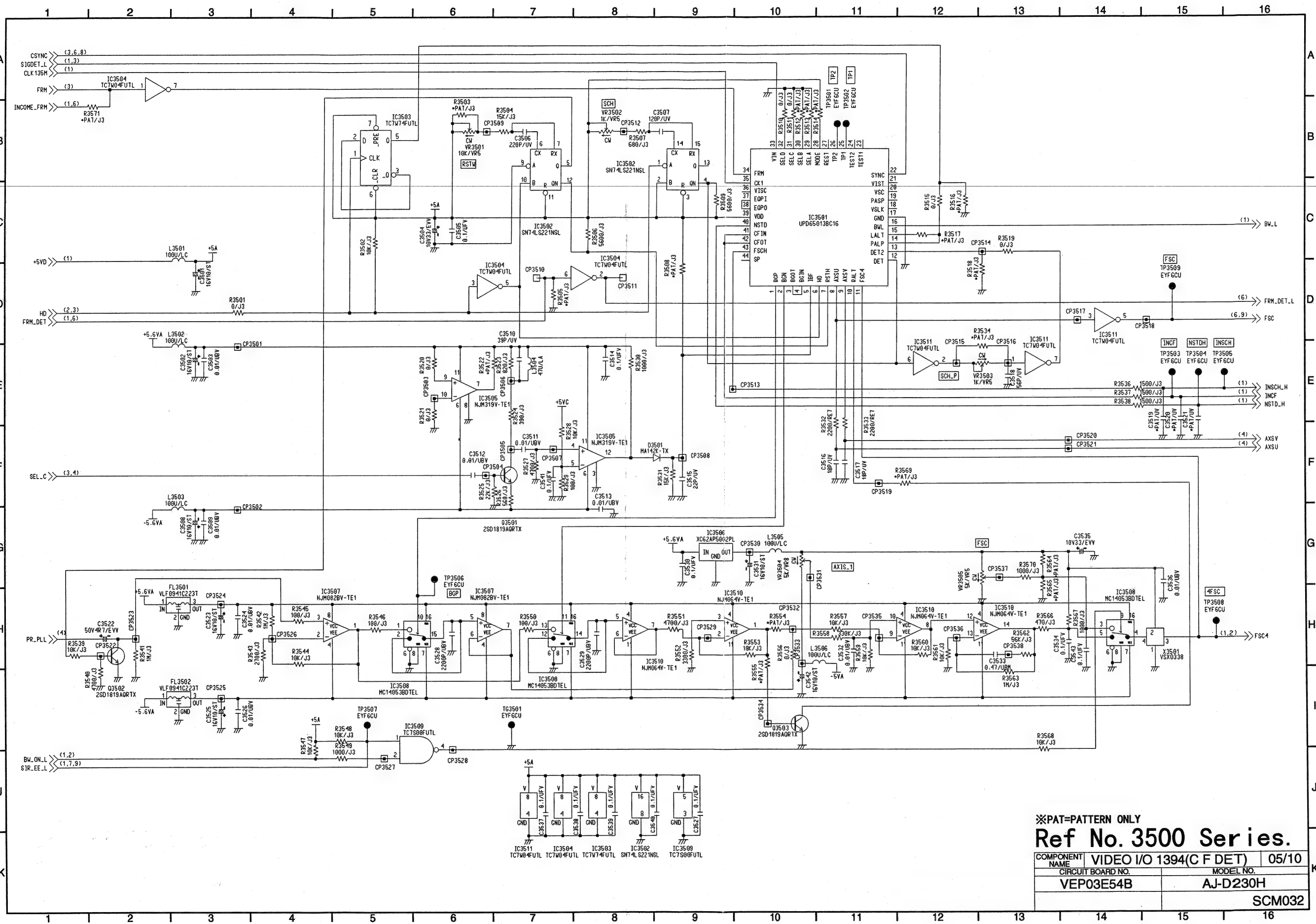
Ref No. 3200 Series.

COMPONENT NAME	VIDEO I/O 1394(Y C SEP)	02/10
CIRCUIT BOARD NO.	VEP03E54B	MODEL NO.
		AJ-D230H
		SCM029



*PAT=PATTERN ONLY
 *REFER TO THE COMPARISON CHRT
Ref No. 3300 Series.
 COMPONENT NAME VIDEO I/O 1394(DECORDE) 03/10
 CIRCUIT BOARD NO. MODEL NO.
 VEP03E54B AJ-D230H
 SCM030

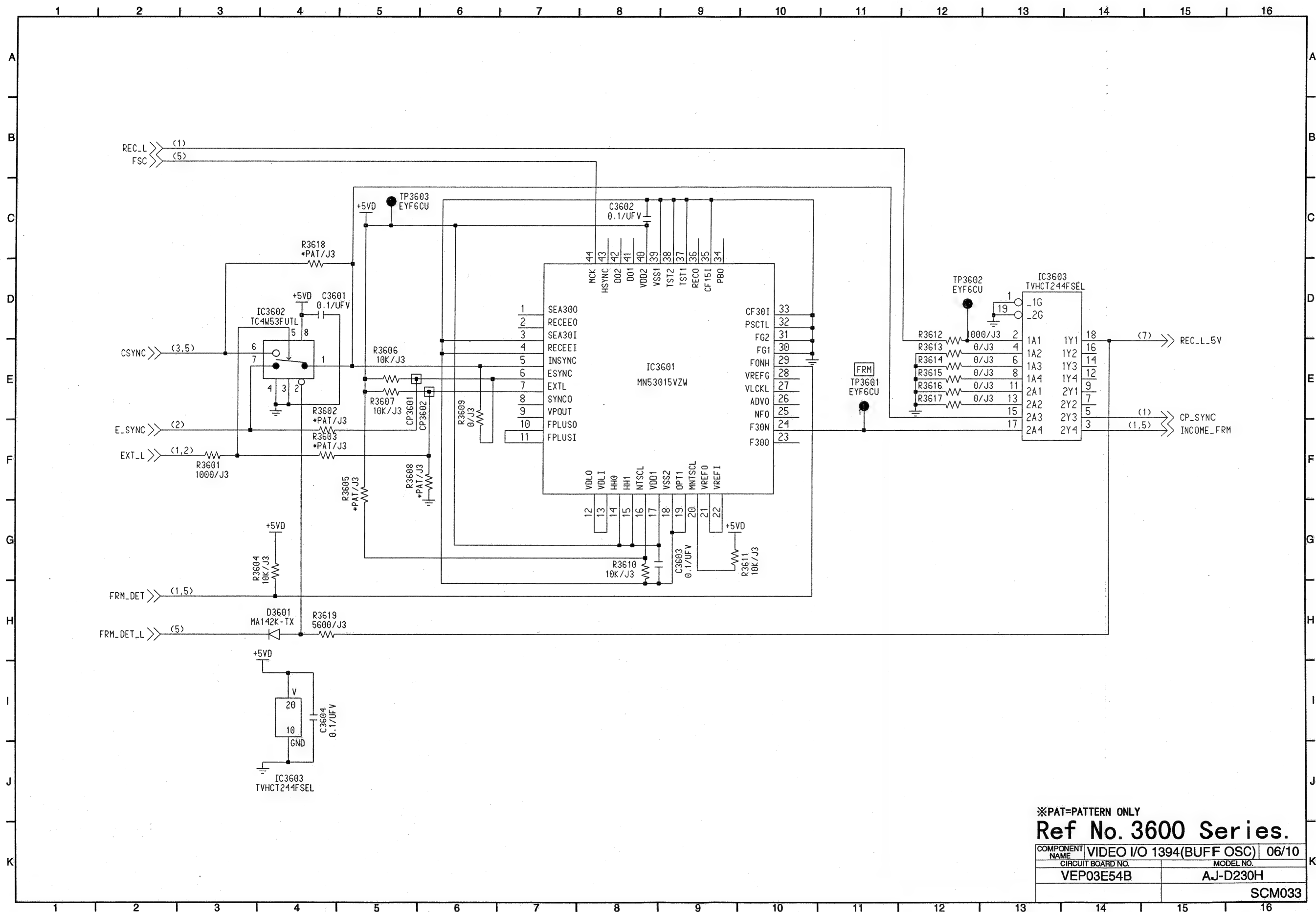




※PAT=PATTERN ONLY

Ref No. 3500 Series.

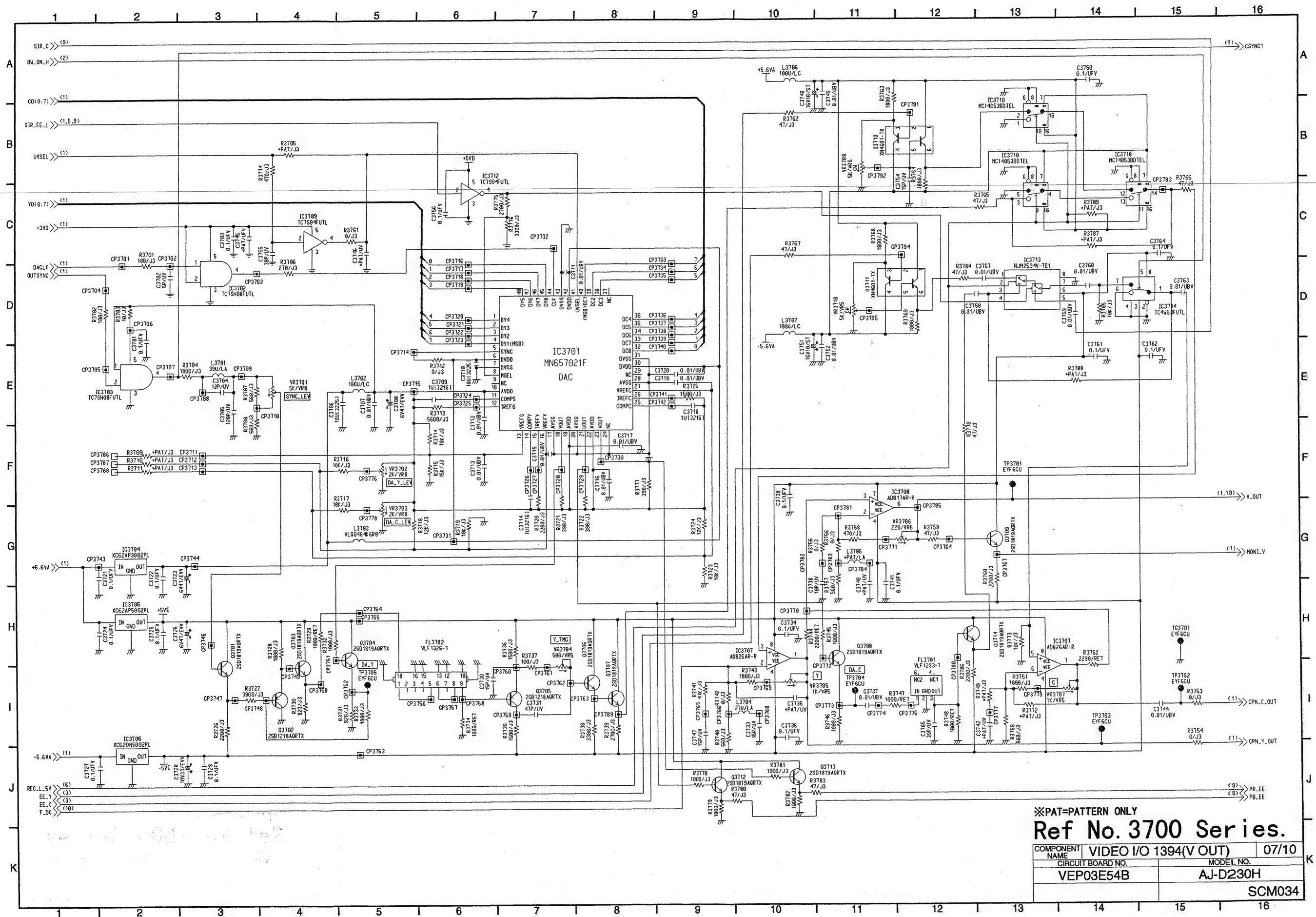
COMPONENT NAME	VIDEO I/O 1394(C F DET)	05/10
CIRCUIT BOARD NO.	VEP03E54B	MODEL NO.
		AJ-D230H
		SCM032



※PAT=PATTERN ONLY

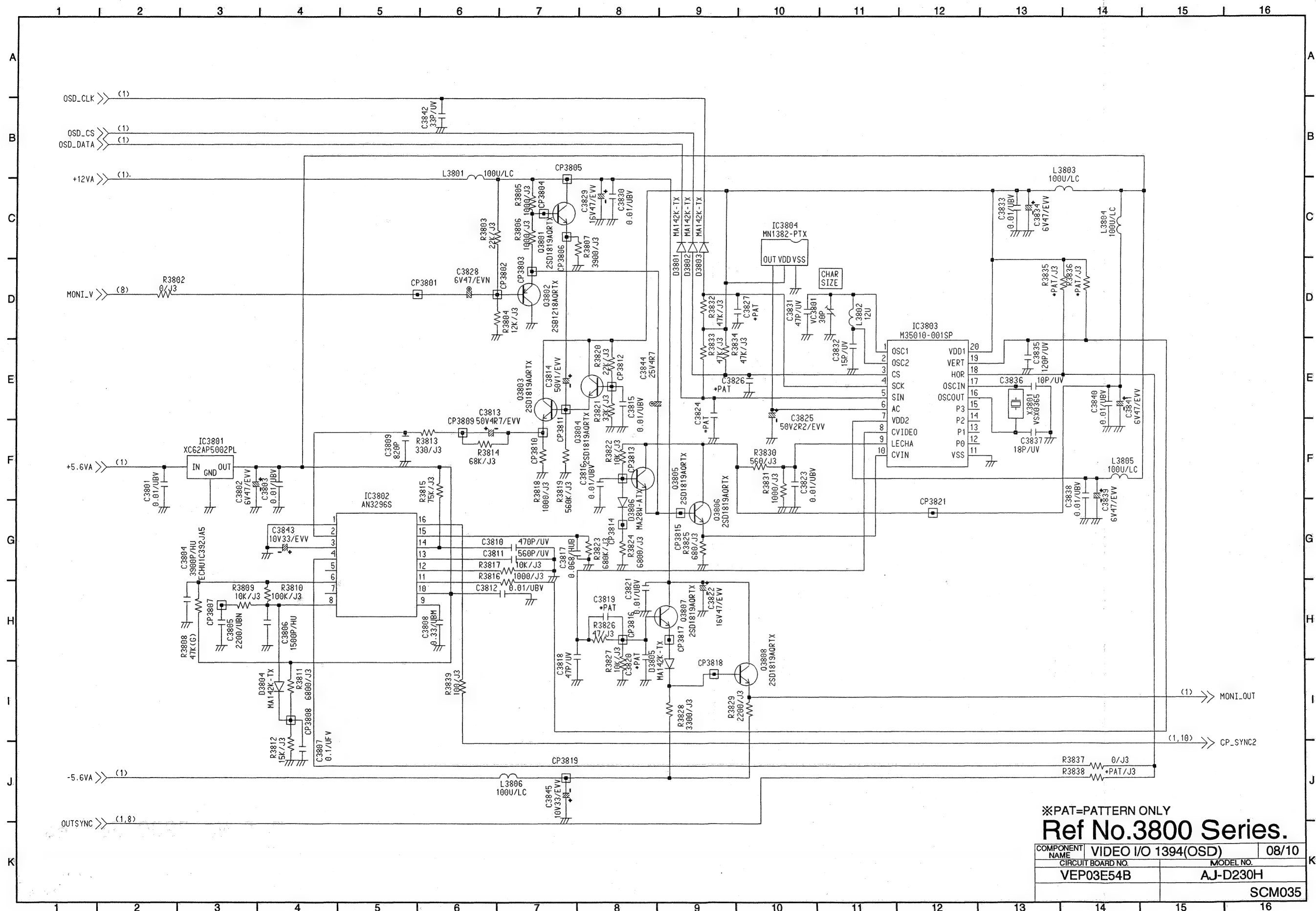
Ref No. 3600 Series.

COMPONENT NAME	VIDEO I/O 1394(BUFF OSC)	06/10
CIRCUIT BOARD NO.	VEP03E54B	
MODEL NO.	AJ-D230H	
		SCM033



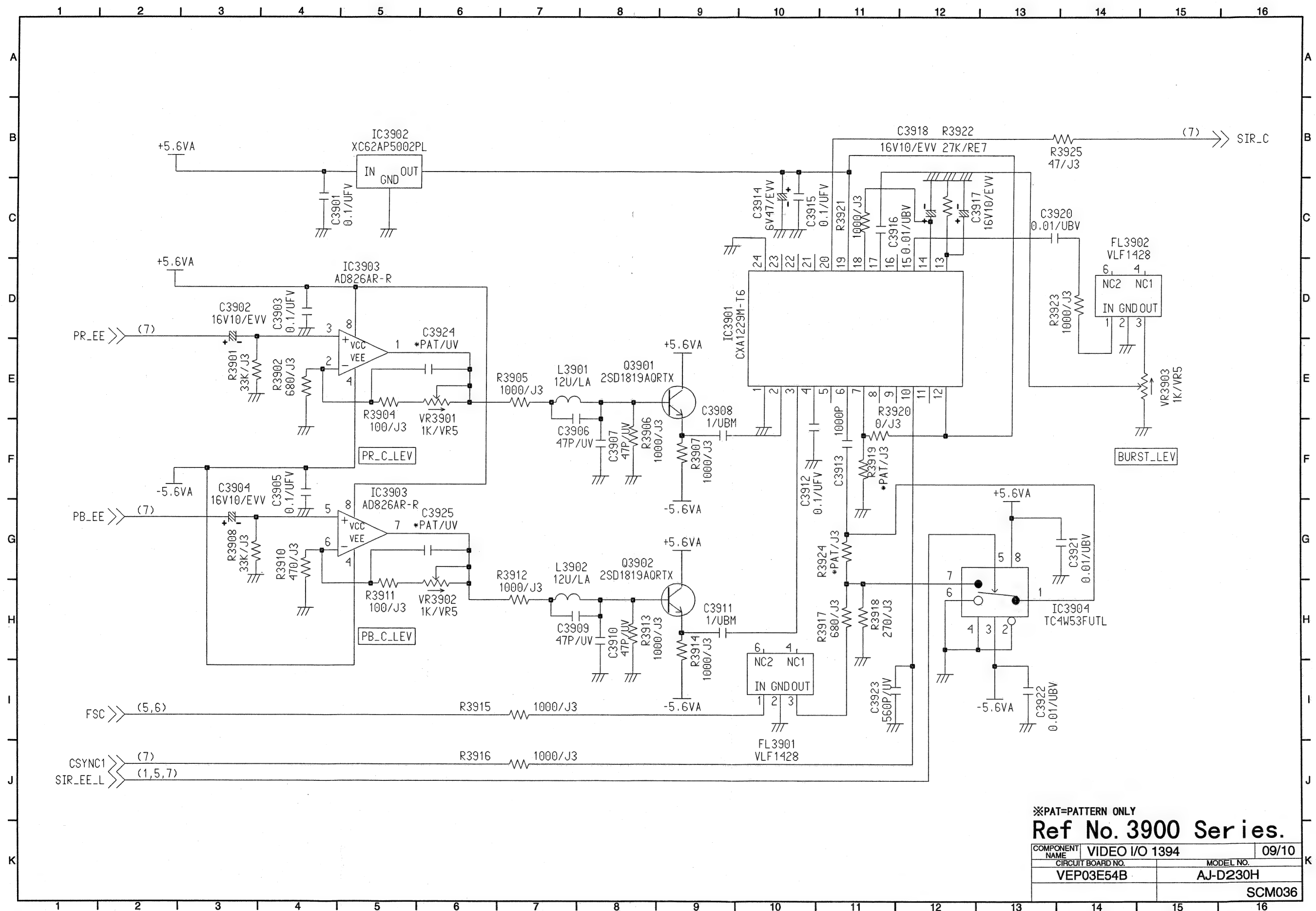
※PAT=PATTERN ONLY
Ref No. 3700 Series.

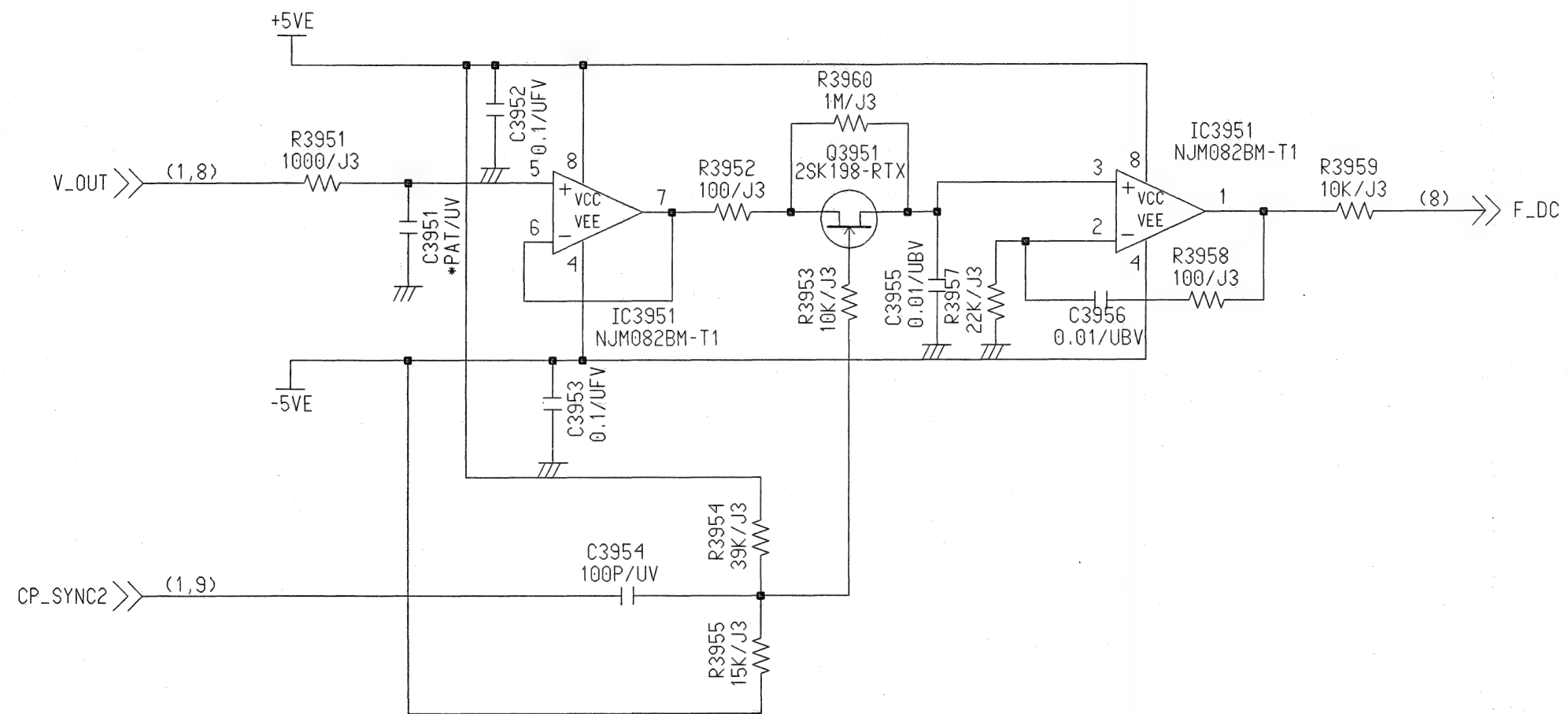
COMPONENT NAME	VIDEO I/O 1394(V OUT)	07/10
CIRCUIT BOARD NO.	VEP03E54B	MODEL NO.
		AJ-D230H
		SCM034



※PAT=PATTERN ONLY
Ref No.3800 Series.

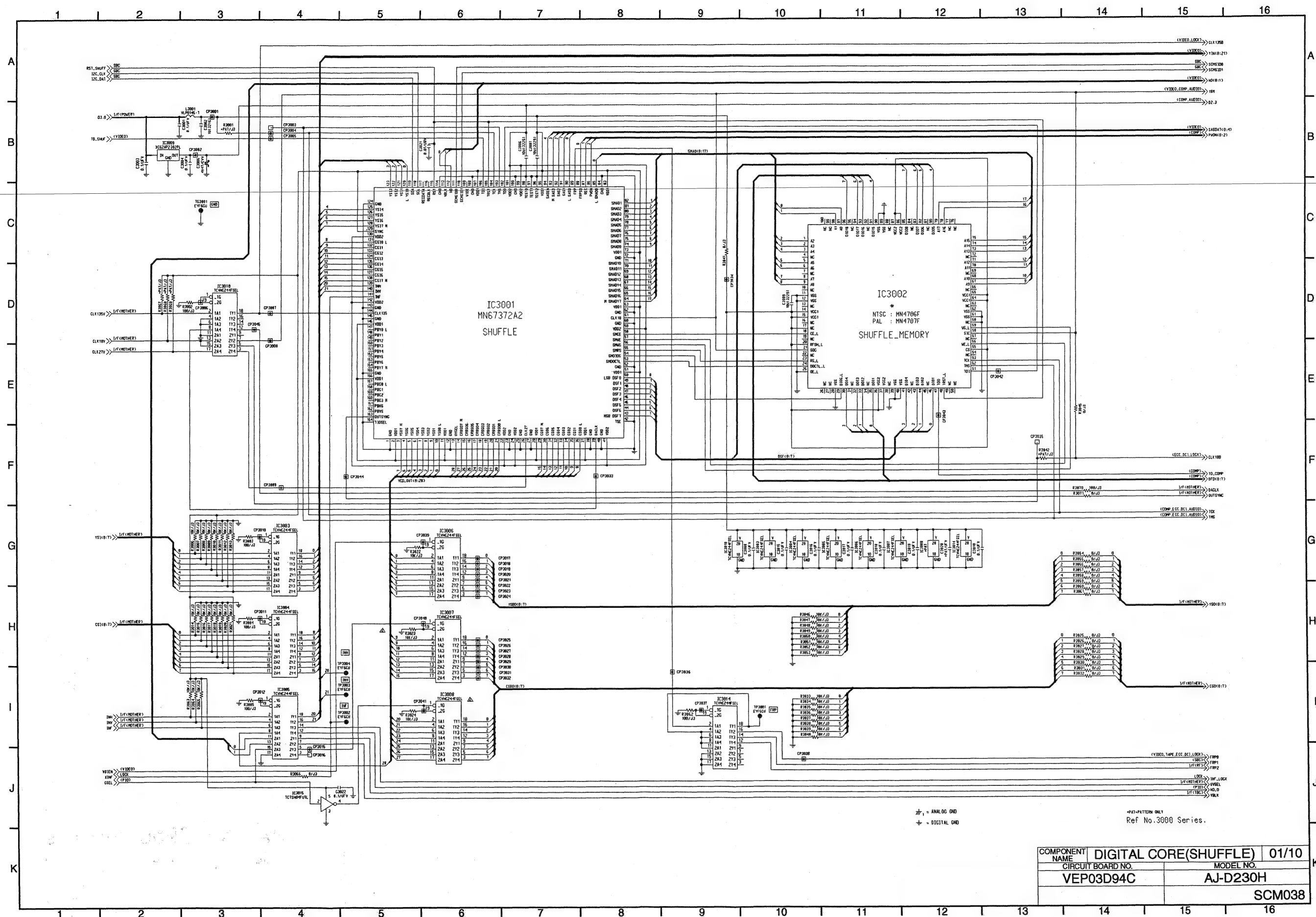
COMPONENT NAME	VIDEO I/O 1394(OSD)	08/10
CIRCUIT BOARD NO.	VEP03E54B	MODEL NO. AJ-D230H
		SCM035

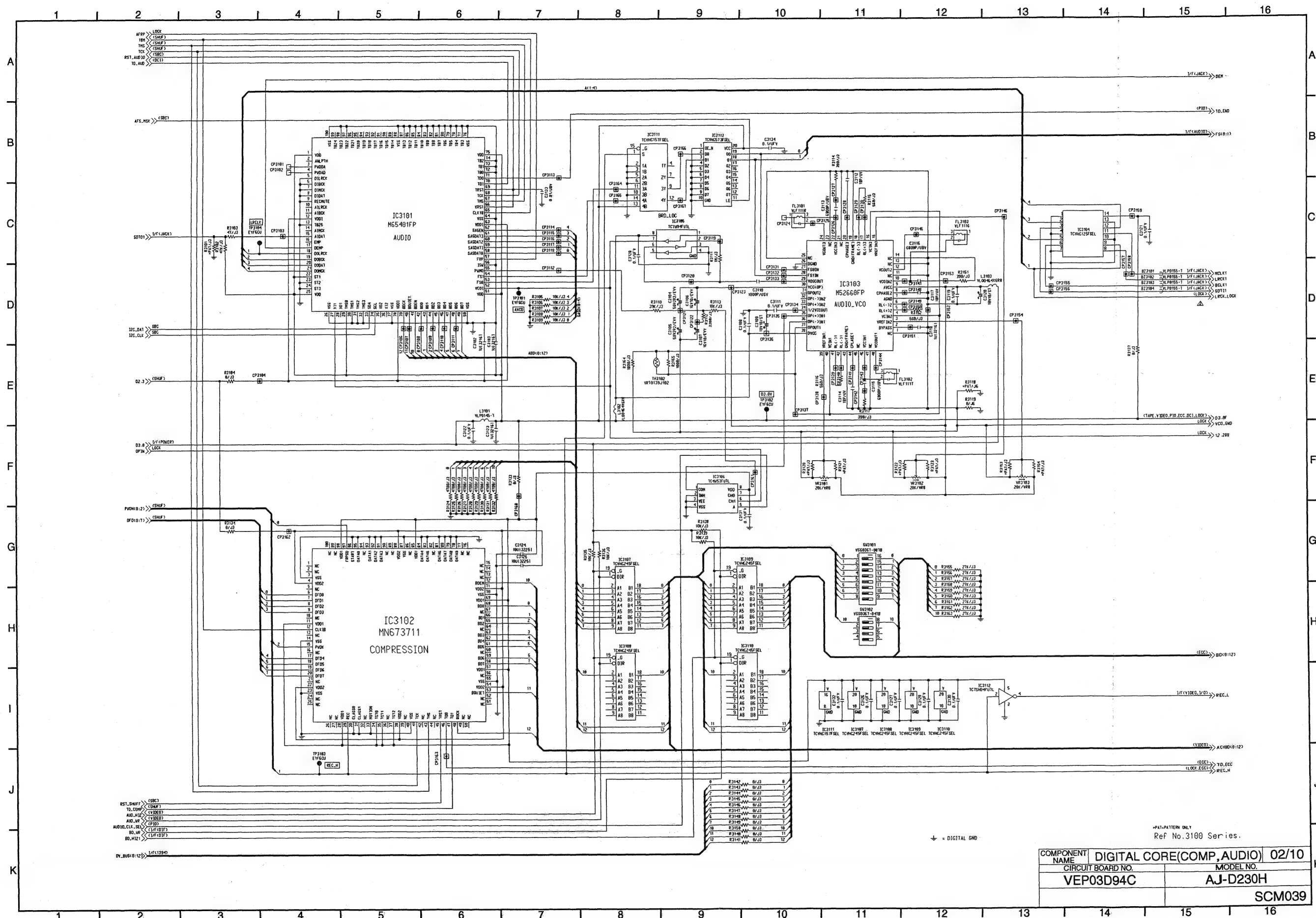


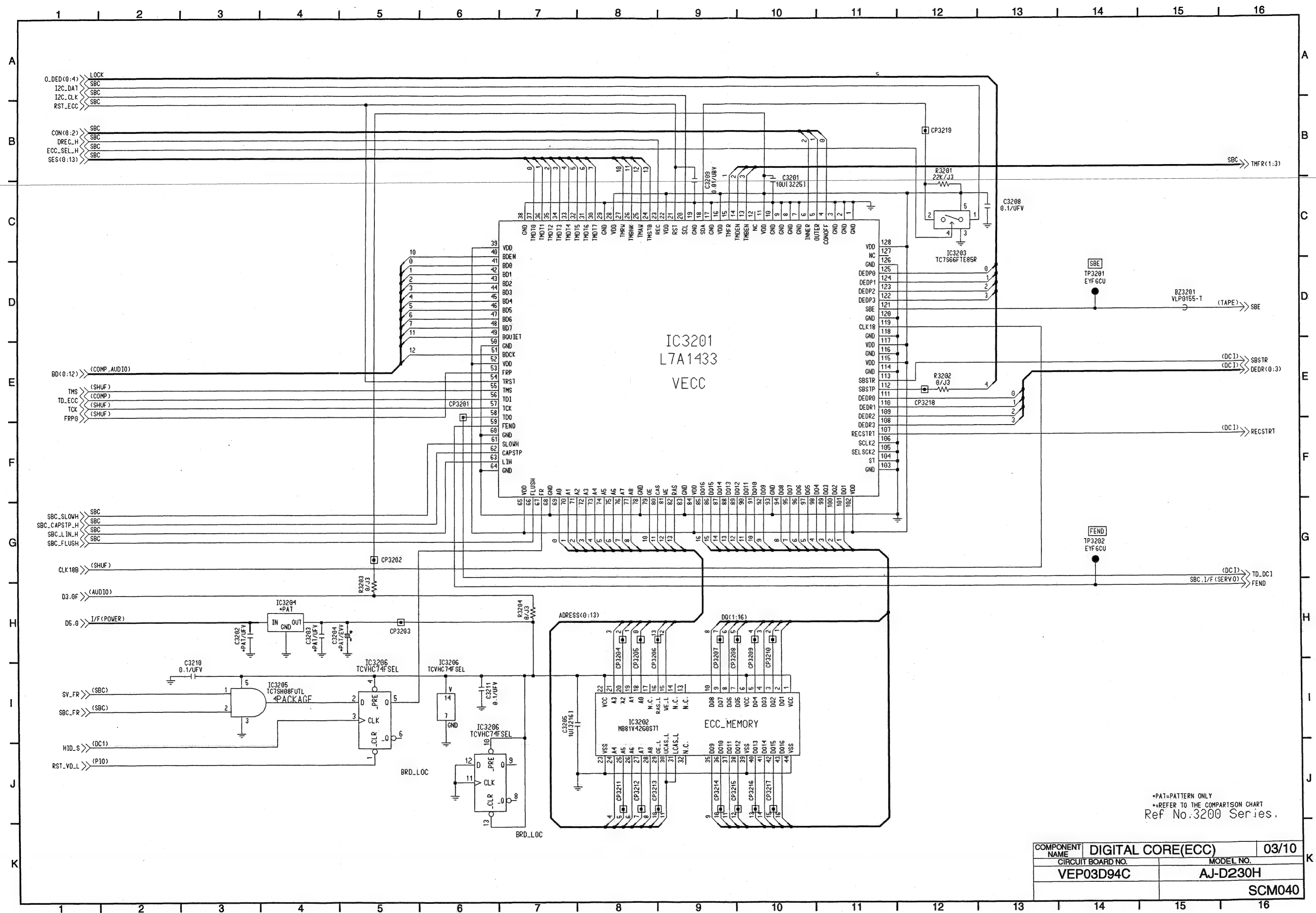


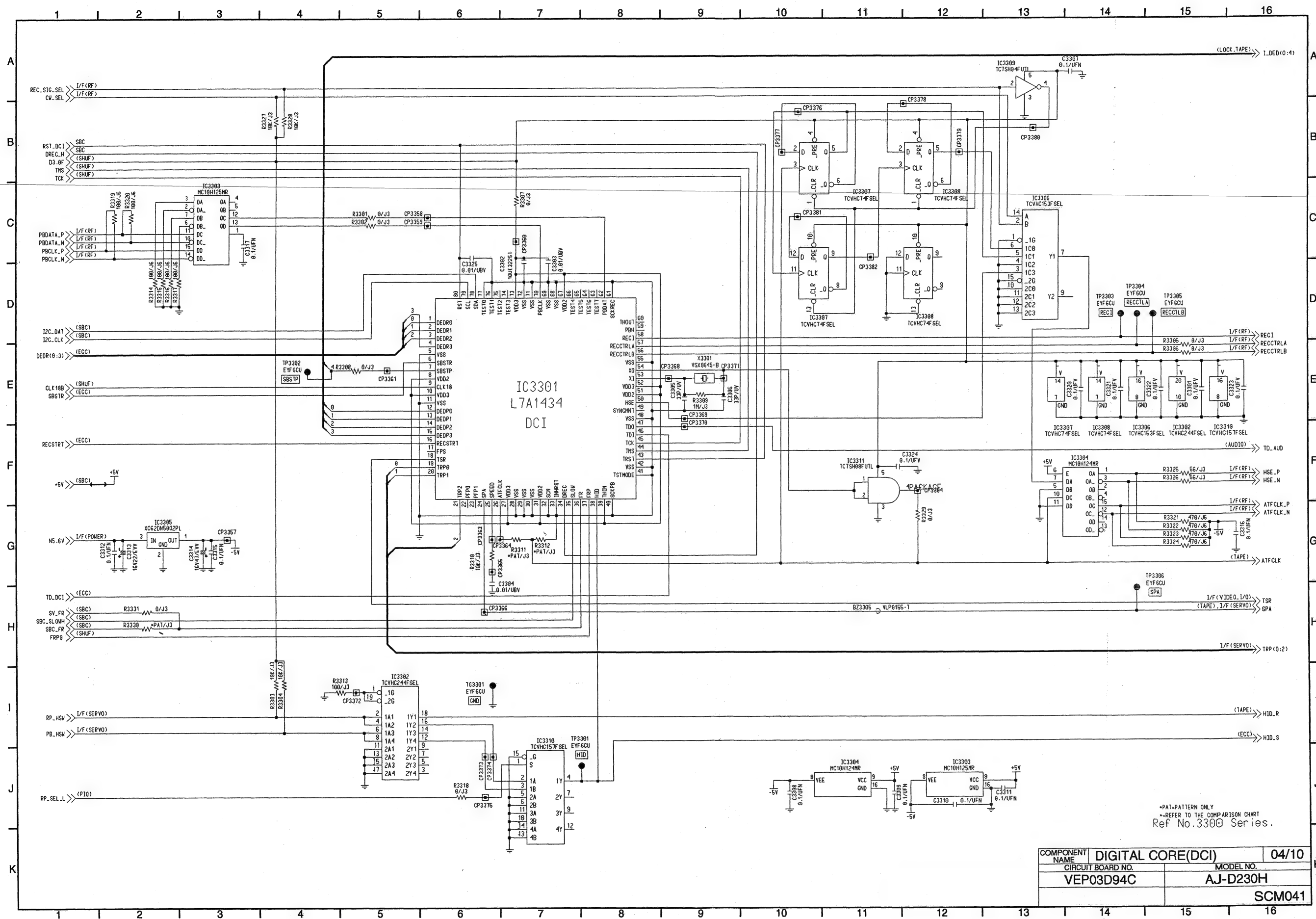
Ref No. 3950 Series.

COMPONENT NAME	VIDEO I/O 1394(FCLP)	10/10
CIRCUIT BOARD NO.	VEP03E54B	MODEL NO. AJ-D230H
		SCM037

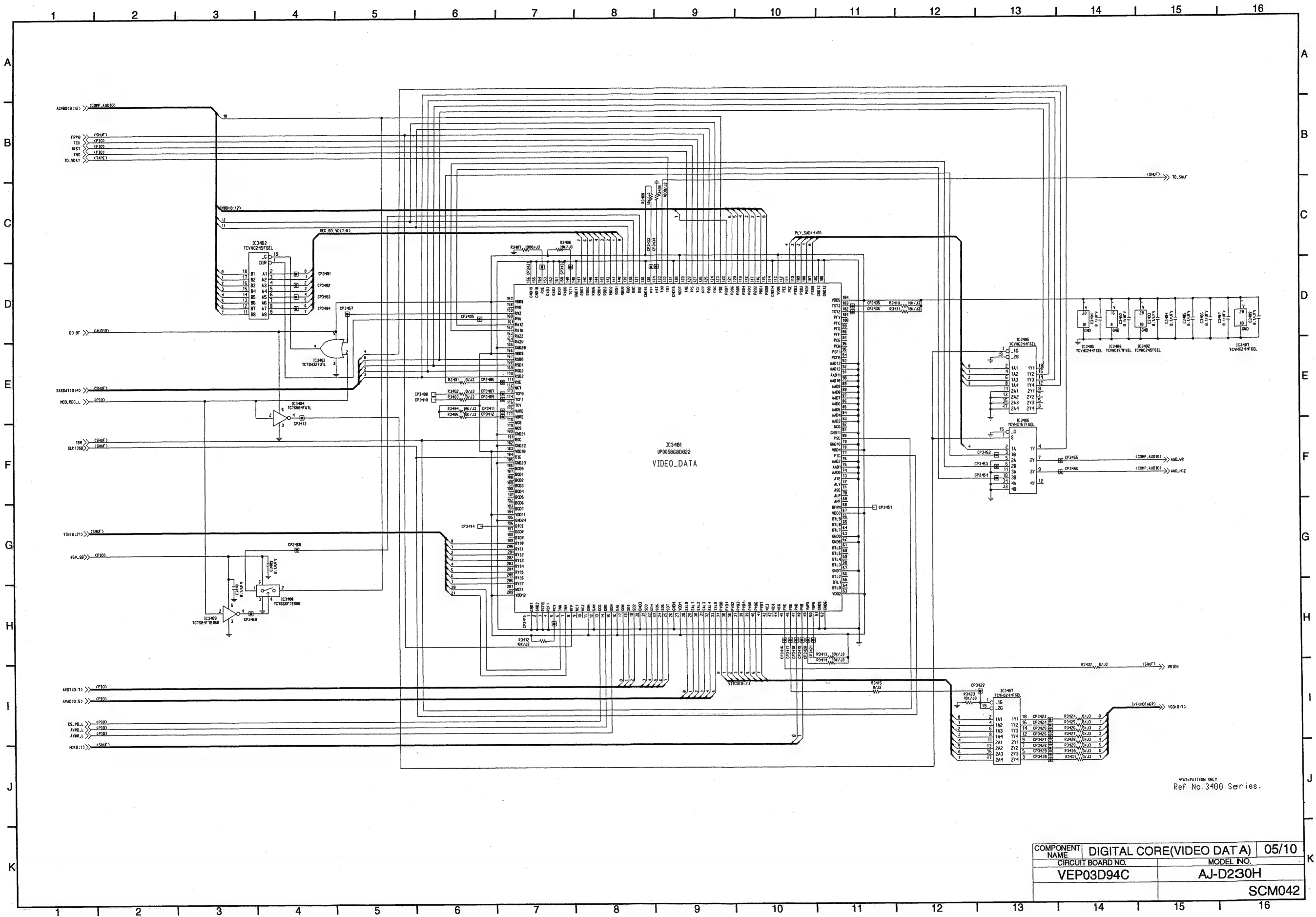






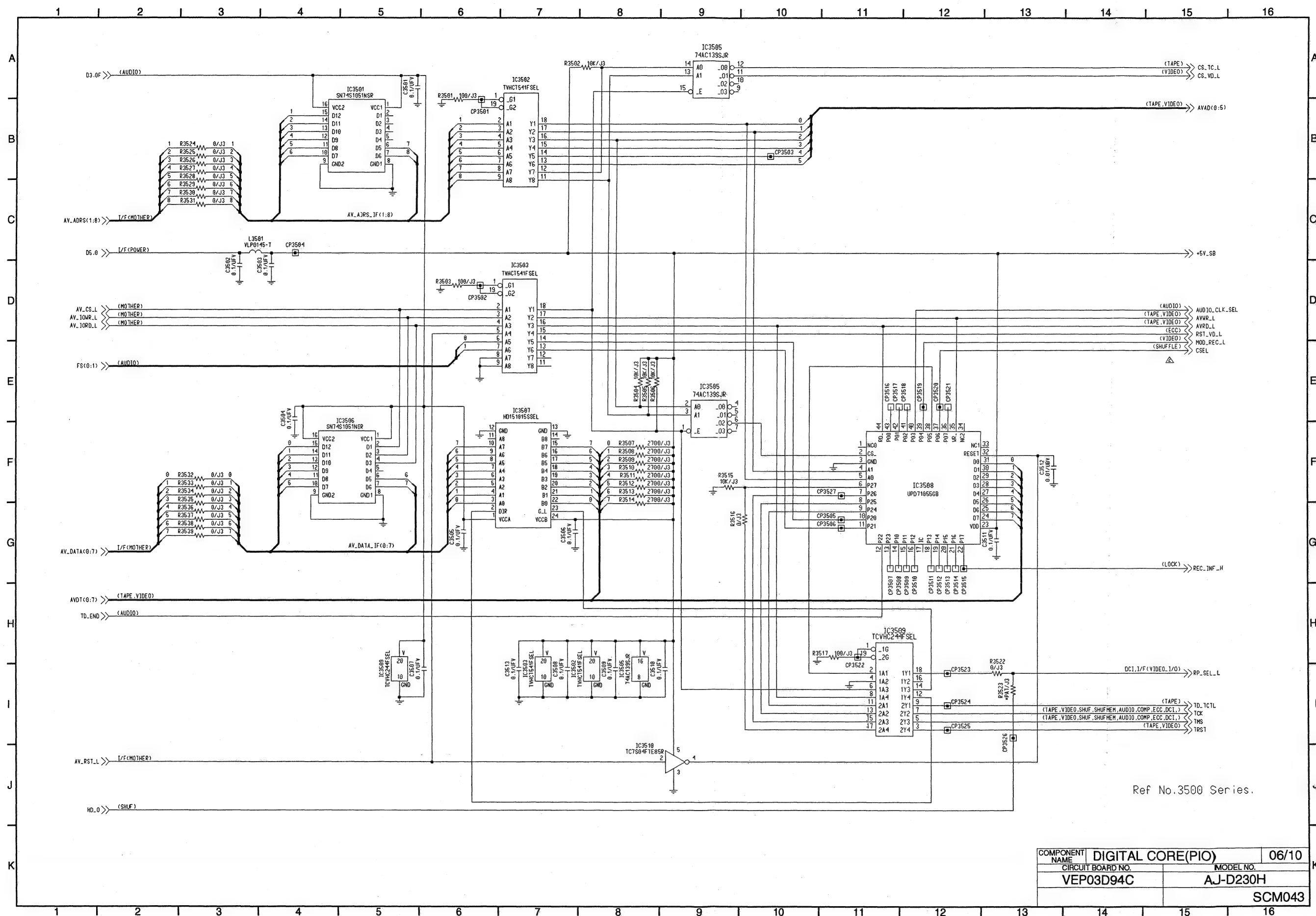


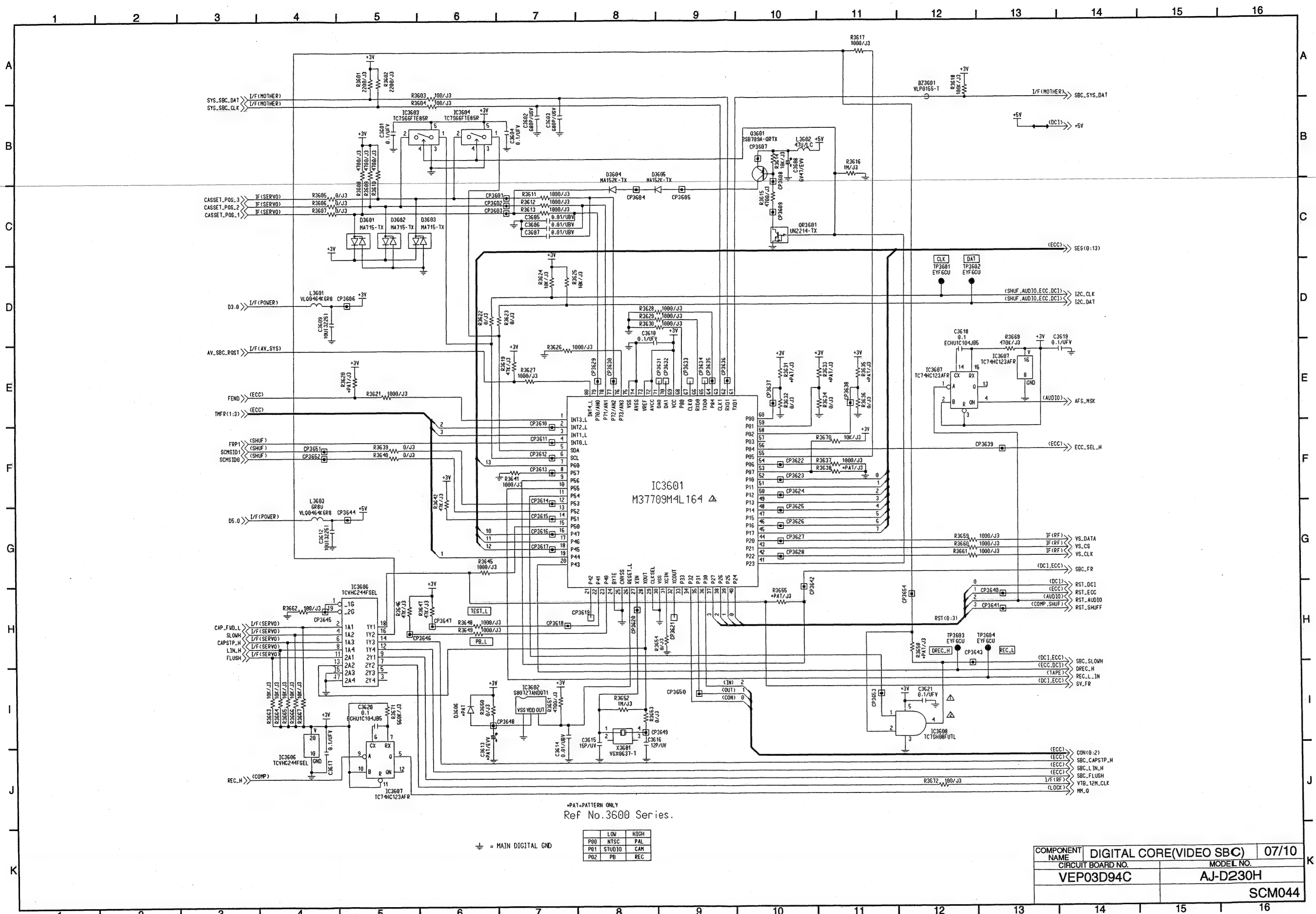
COMPONENT NAME	DIGITAL CORE(DCI)	04/10
CIRCUIT BOARD NO.	MODEL NO.	
VEP03D94C	AJ-D230H	
	SCM041	

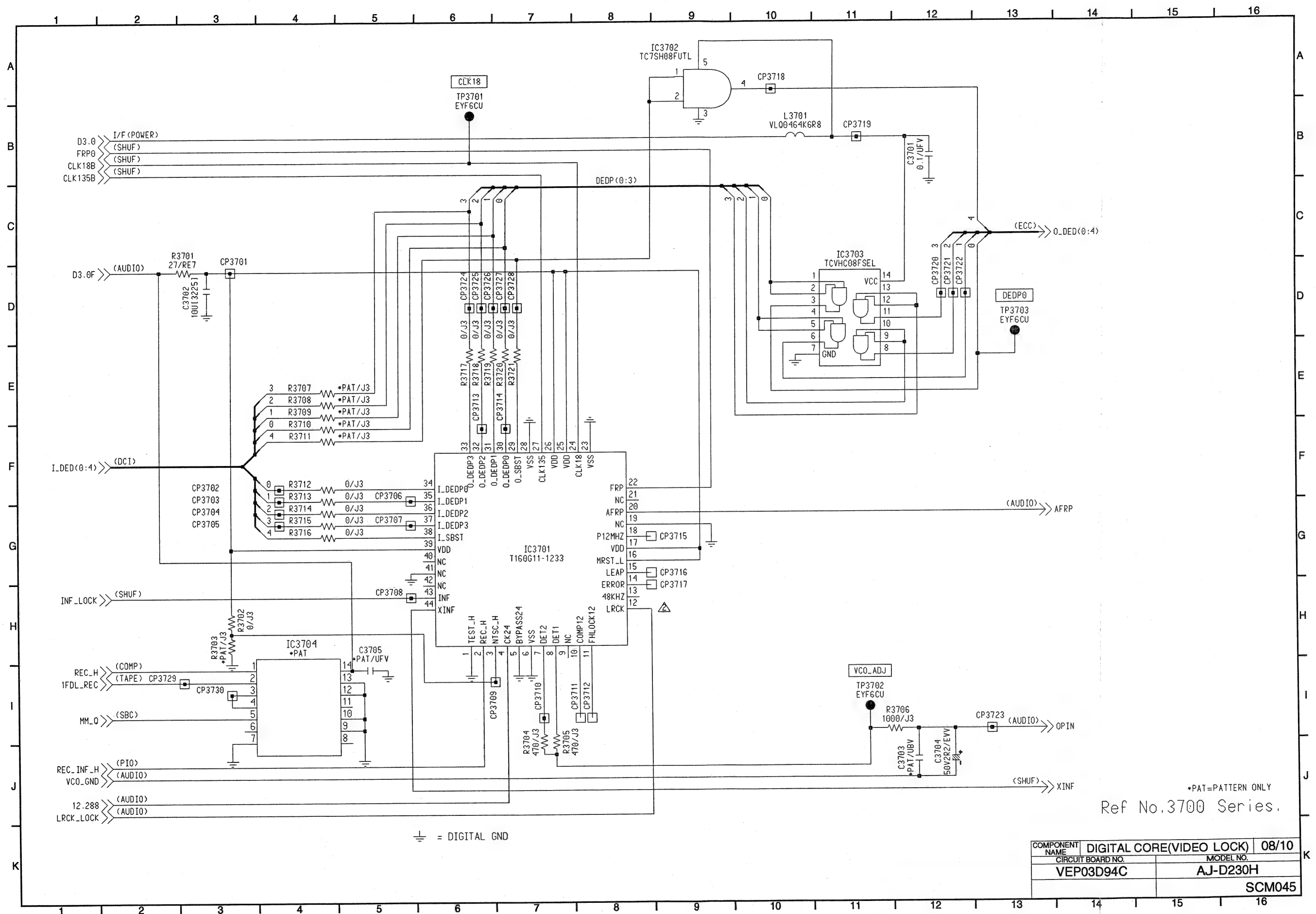


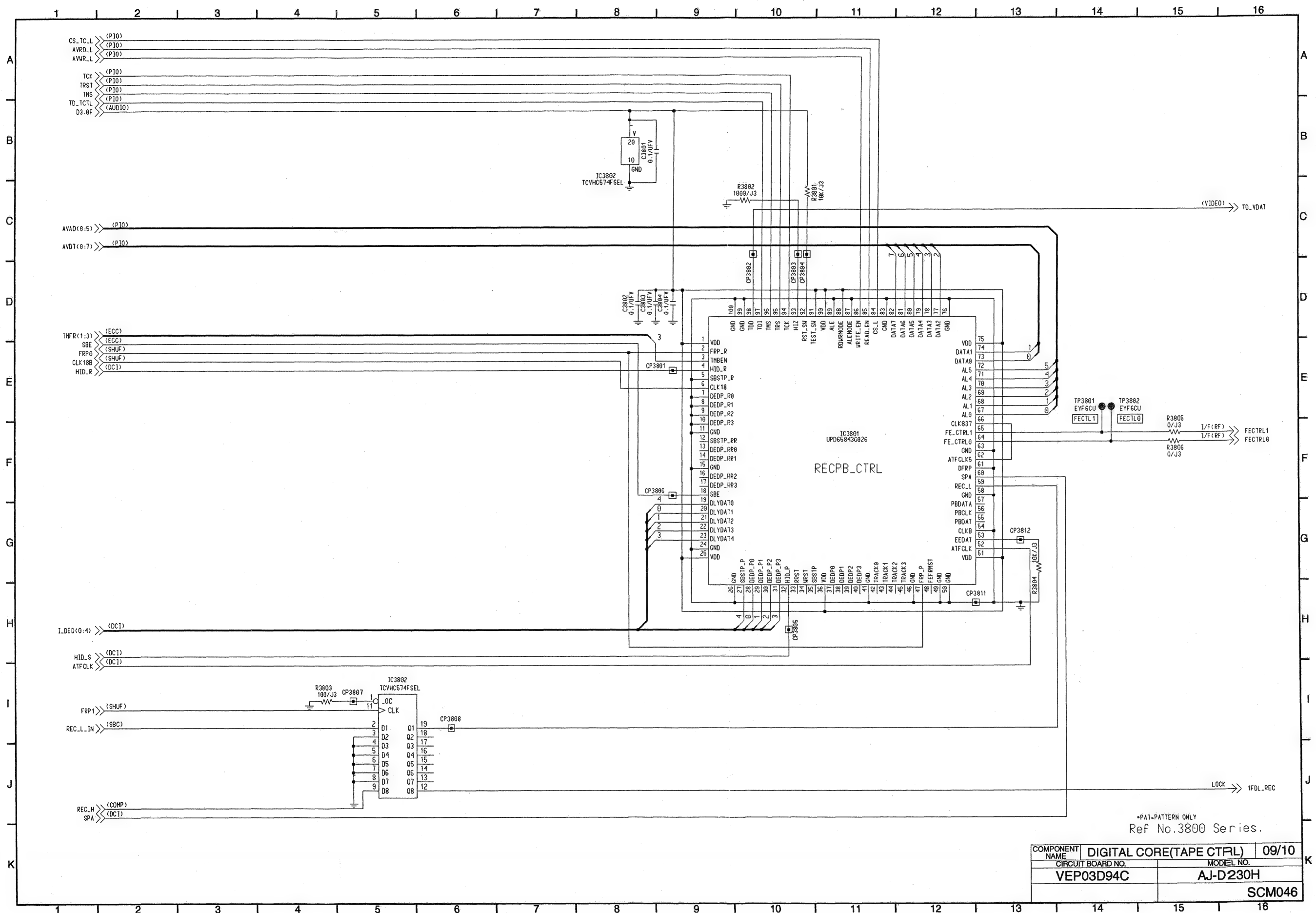
Ref No.3400 Series.

COMPONENT NAME	DIGITAL CORE(VIDEO DATA)	05/10
CIRCUIT BOARD NO.	VEP03D94C	MODEL NO.
		AJ-D230H
		SCM042



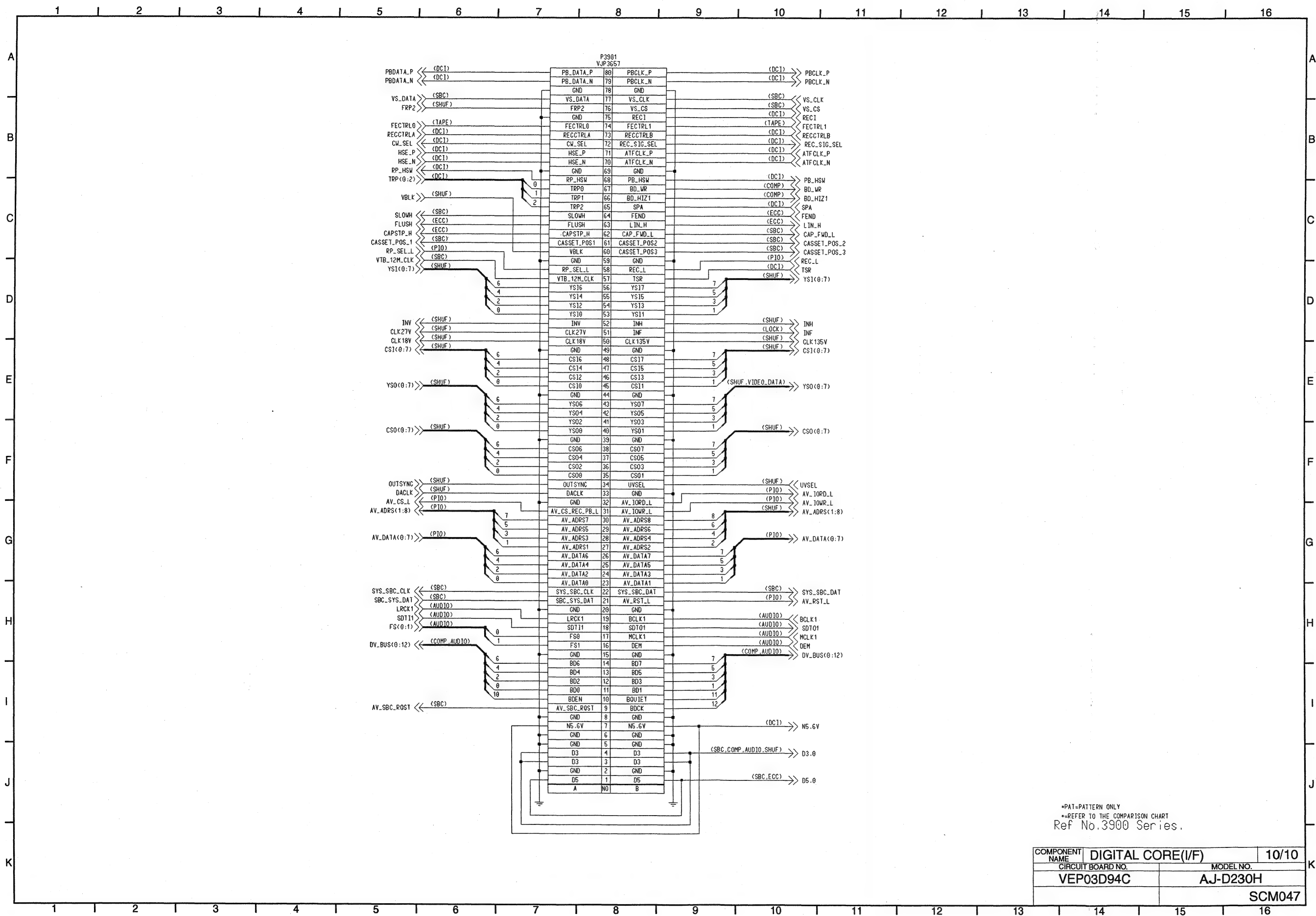






*PAT= PATTERN ONLY
Ref No.3800 Series.

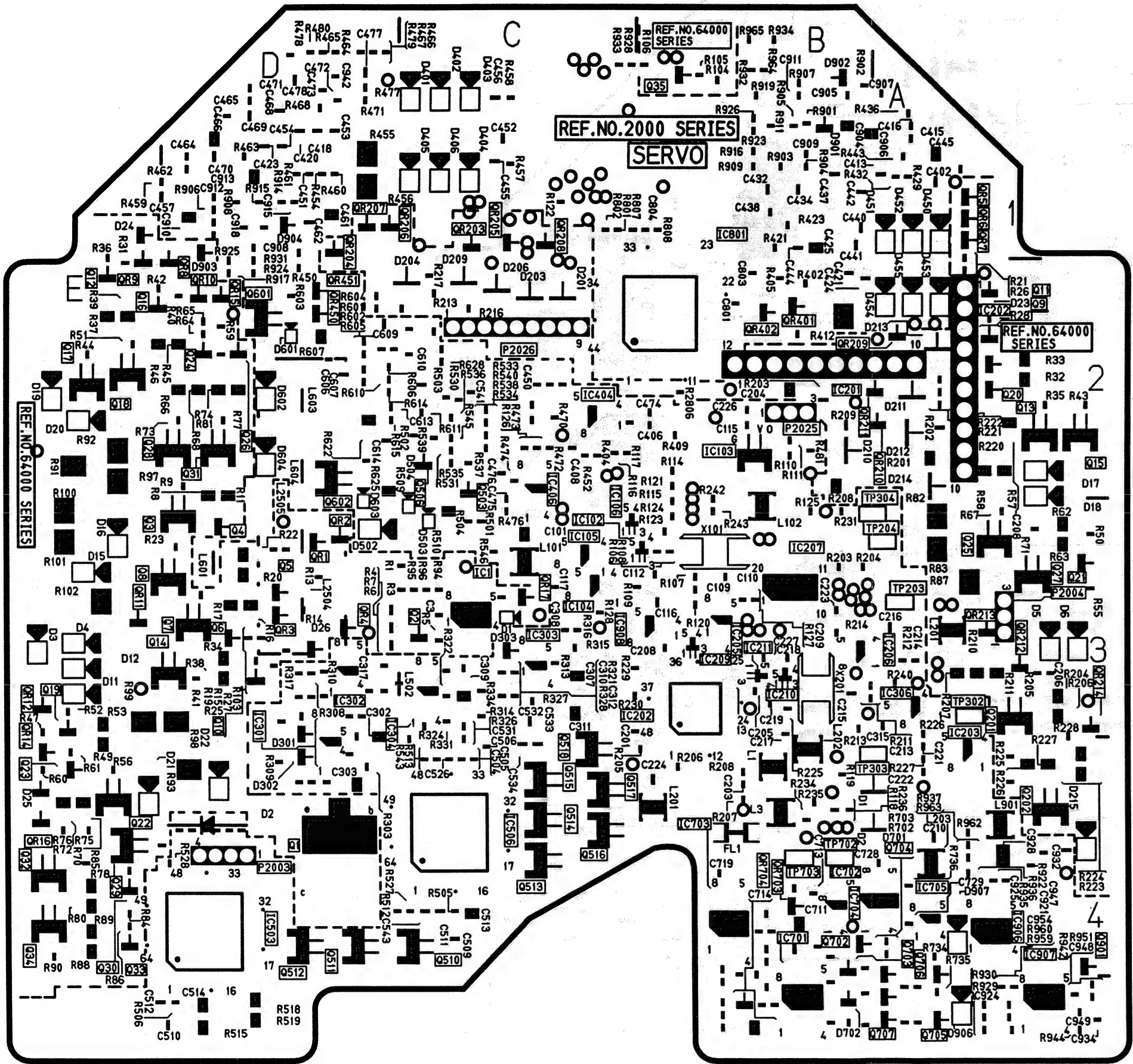
COMPONENT NAME	DIGITAL CORE(TAPE CTRL)	09/10
CIRCUIT BOARD NO.	VEP03D94C	MODEL NO.
		AJ-D230H
		SCM046



*PAT=PATTERN ONLY
 **REFER TO THE COMPARISON CHART
 Ref No.3900 Series.

COMPONENT NAME	DIGITAL CORE(I/F)	10/10
CIRCUIT BOARD NO.	MODEL NO.	
VEP03D94C	AJ-D230H	
	SCM047	

SERVO (VEP02545C) P.C. BOARD



SERVO-FOIL

REF	LOC	REF	LOC	REF	LOC
IC2102	B3	Q2518	C4	QR2402	B2
IC2103	B2	Q2601	D2	QR2450	D2
IC2104	C3	Q2602	D2	QR2451	D2
IC2105	C3	Q2702	B4	QR2703	B4
IC2106	C3	Q2703	B4	QR2704	B4
IC2202	B3	Q2704	A4	QR6400	D3
IC2203	A4	Q2705	A4	QR6400	D3
IC2205	B3	Q2706	A4	QR6400	D3
IC2206	B3	Q2707	A4	QR6400	D3
IC2207	B3	Q2901	A4	QR6400	A1
IC2209	B3	Q64001	D4	QR6400	A1
IC2210	B3	Q64002	C3	QR6400	A1
IC2211	B3	Q64003	D3	QR6400	D2
IC2301	D4	Q64004	D3	QR6401	E2
IC2302	D3	Q64005	D3	QR6401	D2
IC2303	C3	Q64006	D3	QR6401	E3
IC2304	C3	Q64007	D3	QR6401	E3
IC2306	A3	Q64008	D3	QR6401	E4
IC2404	C2	Q64009	A2	QR6401	D2
IC2406	C2	Q64010	D3	QR6401	E4
IC2503	D4	Q64011	A2	QR6401	C3
IC2506	C4	Q64012	E2	QR6420	C1
IC2701	B4	Q64013	A2	QR6420	D1
IC2702	B4	Q64014	D3	QR6420	C1
IC2703	B4	Q64015	A2	QR6421	A3
IC2704	A4	Q64016	E2	QR6421	A3
IC2705	A4	Q64017	E2	QR6421	A3
IC2801	B2	Q64018	E2	TP203	A3
IC2906	A4	Q64019	E3	TP204	A3
IC2907	A4	Q64020	A2	TP302	A3
IC2908	B3	Q64021	A3	TP303	A4
IC64001	C3	Q64022	E4	TP304	A3
IC64201	D2	Q64023	E4	TP702	B4
IC64202	E2	Q64024	D2	TP703	B4
P2003	A4	Q64025	A3	QR6401	C3
P2004	E3	Q64026	D2	QR6420	C1
P2025	D2	Q64027	A3	QR6420	D1
P2026	B2	Q64028	D2	QR6420	C1
Q2503	C2	Q64029	E4	QR6421	A3
Q2506	C2	Q64030	E4	QR6421	A3
Q2510	C4	Q64031	D2	QR6421	A3
Q2511	D4	Q64032	E4	TP203	A3
Q2512	D4	Q64033	E4	TP204	A3
Q2513	C4	Q64034	E4	TP302	A3
Q2514	C4	Q64035	B1	TP303	A4
Q2515	C4	Q64201	A3	TP304	A3
Q2516	C4	Q64202	A4	TP702	B4
Q2517	C4	QR2401	B2	TP703	B4

(FOIL SIDE)

REVERSE SIDE (COMPONENT SIDE)

The diagram is a detailed electronic schematic of a servo motor control system. It features a central 'SERVO' block and a 'VJB02545' component. The circuit is populated with numerous integrated circuits (ICs), resistors (R), capacitors (C), inductors (L), and other components. Key components include a 'SERVO' block, a 'VJB02545' component, and several 'REF. NO. 64000 SERIES' components. The circuit is organized into several functional blocks, with components labeled with alphanumeric codes and values. The diagram is a technical drawing showing the internal wiring and component placement of the device.

REF	LOC	REF	LOC
IC2101	C2	P2037	A4
IC2201	B2	P2038	C1
IC2305	C2	Q2501	C2
IC2401	B1	Q2502	D2
IC2402	D1	Q2504	C2
IC2405	D1	Q2505	C2
IC2407	C1	Q2507	D4
IC2502	C2	Q2508	D4
IC2601	D2	Q2509	D4
IC2602	C2	Q2701	B4
IC2901	B1	Q2708	B4
IC2902	B1	Q64203	A4
IC2904	D1	QR2501	C2
IC2905	D2	QR2502	C2
P2001	B4	QR6401	A2
P2002	C1	QR6420	C2
P2011	B4	QR6420	C2
P2012	B1	TP201	B4
P2013	A4	TP202	A2
P2014	A2	TP205	A4
P2015	A2	TP301	C2
P2016	A2	TP305	B2
P2017	C1	TP701	A2
P2018	E2	TP704	B4
P2019	E2	TP2401	B1
P2020	E4	TP2403	B1
P2021	E4	TP2404	E2
P2022	E4	TP2451	C1
P2024	E2	TP2453	D2
P2030	B4	TP2454	C1
P2032	A4	TP2801	B2
P2033	C4	TP2903	A4
P2034	A1	TP2906	B1
P2035	D1	TPG201	C1
P2036	D4	VR2201	A2

PCB—2

REF. NO. 3000 SERIES

VIDEO I/O

3

1

2

3

4

8

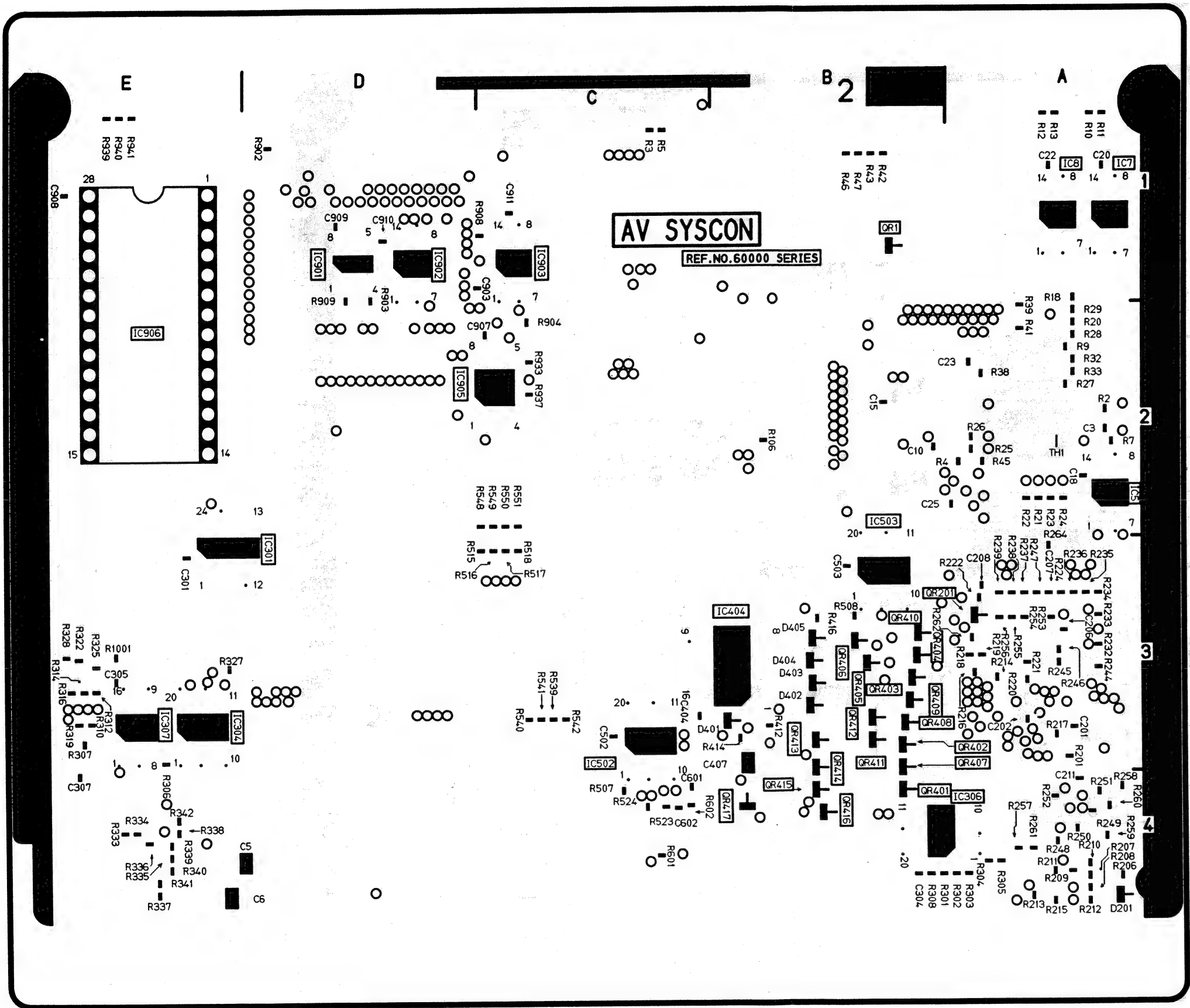
REF	LOC	REF	LOC
IC3202	E2	Q3403	C3
IC3302	E2	Q3404	C3
IC3403	D2	Q3405	C3
IC3404	C2	Q3406	C3
IC3405	C2	Q3502	C1
IC3502	C1	Q3503	D1
IC3506	D1	Q3701	B1
IC3704	B3	Q3702	B2
IC3705	C3	Q3703	B2
IC3706	C3	Q3704	B3
IC3801	A2	Q3705	B2
IC3802	A4	Q3709	C4
IC3902	A1	Q3710	C2
IC3951	B1	Q3711	B2
Q3201	E4	Q3712	B3
Q3202	E4	Q3713	B3
Q3203	E4	Q3714	B3
Q3204	E3	Q3801	A3
Q3205	D2	Q3802	A3
Q3206	E3	Q3803	A3
Q3207	D3	Q3804	A3
Q3208	D4	Q3807	A4
Q3301	E2	Q3808	B4
Q3302	D3	Q3951	B1
Q3303	D3	QR3301	D3
Q3304	D3	QR3304	D3
Q3305	C4		

PCB—3

REF	LOC	REF	LOC
IC3201	E3	TG3201	E2
IC3203	D3	TG3401	C3
IC3204	E3	TG3501	D1
IC3205	E3	TG3701	B4
IC3208	E4	TP3201	D3
IC3301	D2	TP3202	D2
IC3303	D3	TP3203	E3
IC3304	D2	TP3301	D1
IC3401	C3	TP3302	E1
IC3402	D3	TP3401	C4
IC3501	C1	TP3402	C4
IC3503	B1	TP3501	C1
IC3504	B1	TP3502	C1
IC3505	C2	TP3503	B1
IC3507	D1	TP3504	C1
IC3508	D1	TP3505	C1
IC3509	E2	TP3506	C1
IC3510	D1	TP3507	E1
IC3511	C2	TP3508	E1
IC3601	A1	TP3509	B1
IC3602	A1	TP3601	A1
IC3603	A1	TP3602	A1
IC3701	B3	TP3603	A1
IC3702	B4	TP3701	C4
IC3703	B1	TP3702	B3
IC3707	B2	TP3703	C3
IC3708	C2	TP3704	B3
IC3709	B4	TP3705	B3
IC3710	B2	VC3801	A3
IC3712	B3	VR3202	E2
IC3713	B2	VR3203	E2
IC3714	B2	VR3401	C3
IC3803	A3	VR3402	C3
IC3804	A3	VR3501	C2
IC3901	A2	VR3502	C1
IC3903	A2	VR3503	C2
IC3904	A2	VR3504	D1
P3101	C4	VR3505	D1
Q3209	E4	VR3701	B1
Q3306	D2	VR3702	B1
Q3401	C3	VR3703	B1
Q3402	C3	VR3704	C2
Q3501	D2	VR3705	B1
Q3706	B2	VR3706	C2
Q3707	B2	VR3707	B1
Q3708	B3	VR3709	C2
Q3805	A3	VR3710	B2
Q3806	A3	VR3901	A2
Q3901	A2	VR3902	A2
Q3902	A2	VR3903	B2

PCB-4

AV SYSCON (VEP06C83A) P.C. BOARD

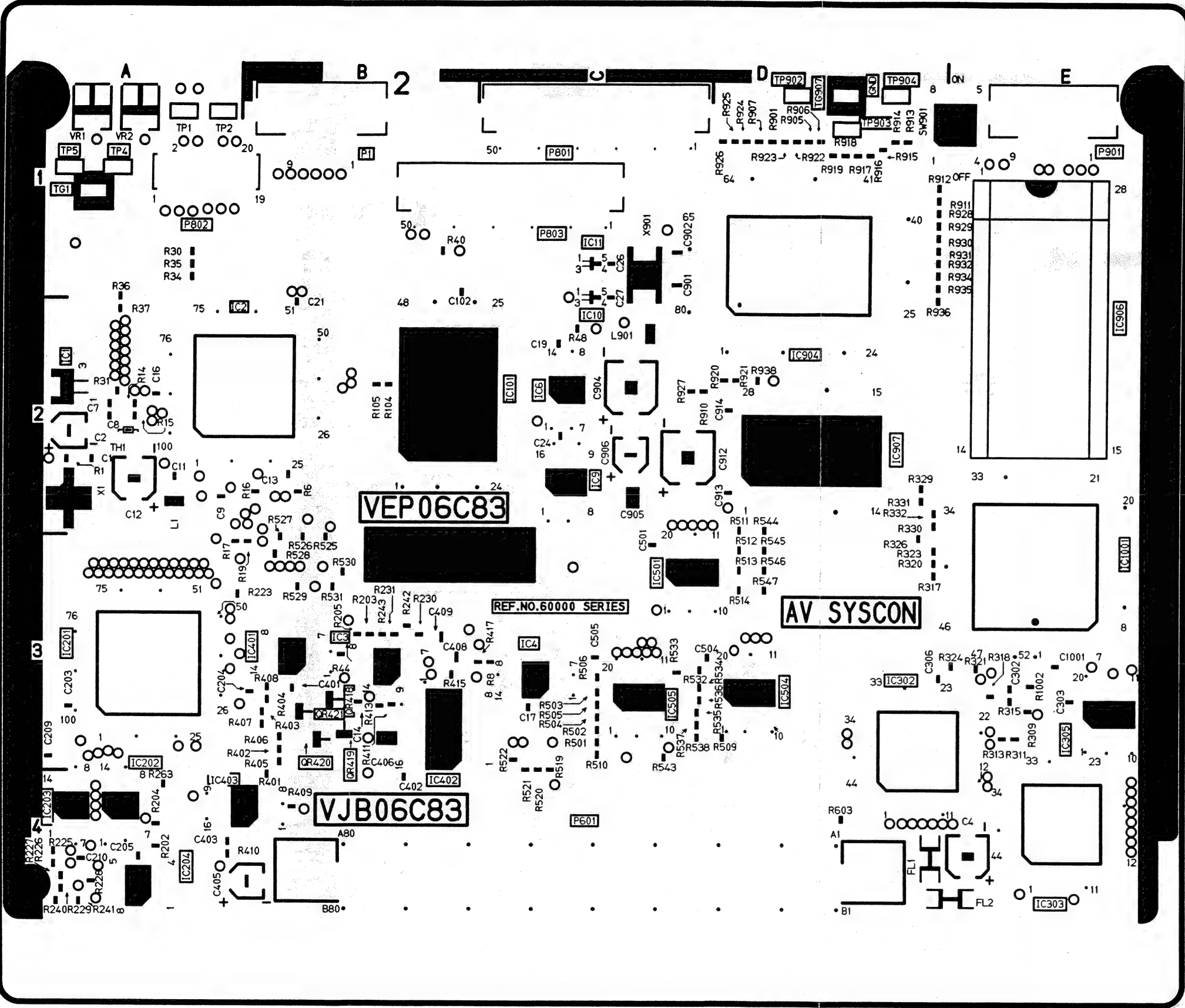


AV SYSCON-FOIL

REF	LOC
IC60005	A2
IC60007	A1
IC60008	A1
IC60301	D3
IC60304	E3
IC60306	B4
IC60307	E3
IC60404	B3
IC60502	C3
IC60503	B3
IC60901	D1
IC60902	D1
IC60903	C1
IC60905	C2
QR60001	B1
QR60201	A3
QR60401	B4
QR60402	B3
QR60403	B3
QR60404	B3
QR60405	B3
QR60405	B3
QR60407	B3
QR60408	B3
QR60409	B3
QR60410	B3
QR60411	B3
QR60412	B3
QR60413	B3
QR60414	B4
QR60415	B4
QR60416	B4
QR60417	B4

(FOIL SIDE)
REVERSE SIDE (COMPONENT SIDE)

AV SYSCON (VEP06C83A) P.C. BOARD



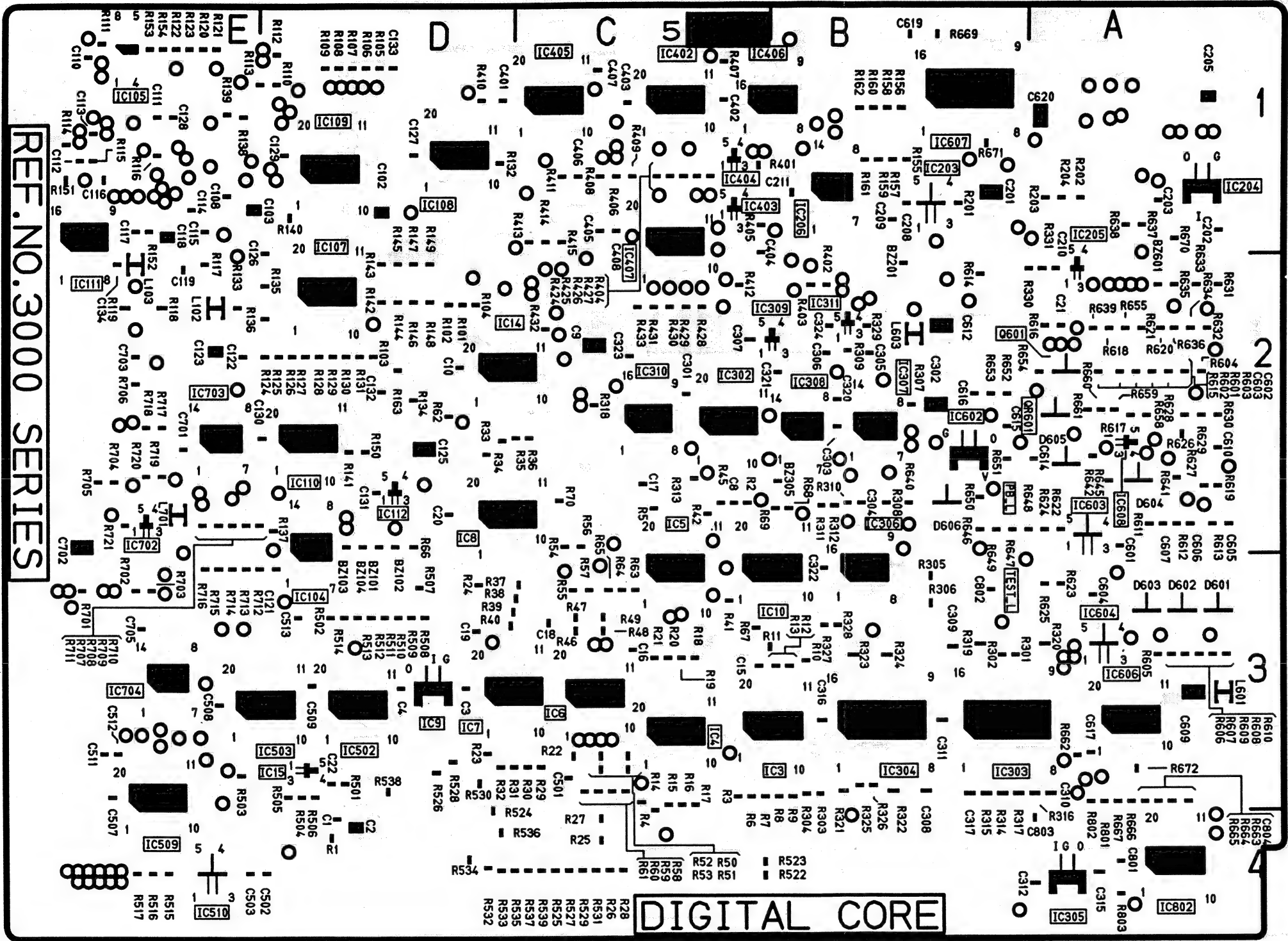
AV SYSCON-COMPONENT

REF	LOC
IC60001	A2
IC60002	A2
IC60003	B3
IC60004	C3
IC60006	C2
IC60009	C2
IC60101	C2
IC60201	A3
IC60202	A4
IC60203	A4
IC60204	A4
IC60302	D3
IC60303	E4
IC60305	E3
IC60401	B3
IC60402	B3
IC60403	A4
IC60501	C3
IC60504	D3
IC60505	C3
IC60904	D2
IC60907	D2
IC61001	E3
P60001	B1
P60601	C4
P60801	C1
P60802	A1
P60901	E1
QR60418	B3
QR60419	B3
QR60420	B3
QR60421	B3
SW60901	D1
TG60001	A1
TG60907	D1
TP60001	A1
TP60002	A1
TP60004	A1
TP60005	A1
TP60902	D1
TP60903	D1
TP60904	D1
VR60001	A1
VR60002	A1

(COMPONENT SIDE)

REVERSE SIDE (FOIL SIDE)

DIGITAL CORE (VEP03D94C) P.C. BOARD



DIGITAL-FOIL

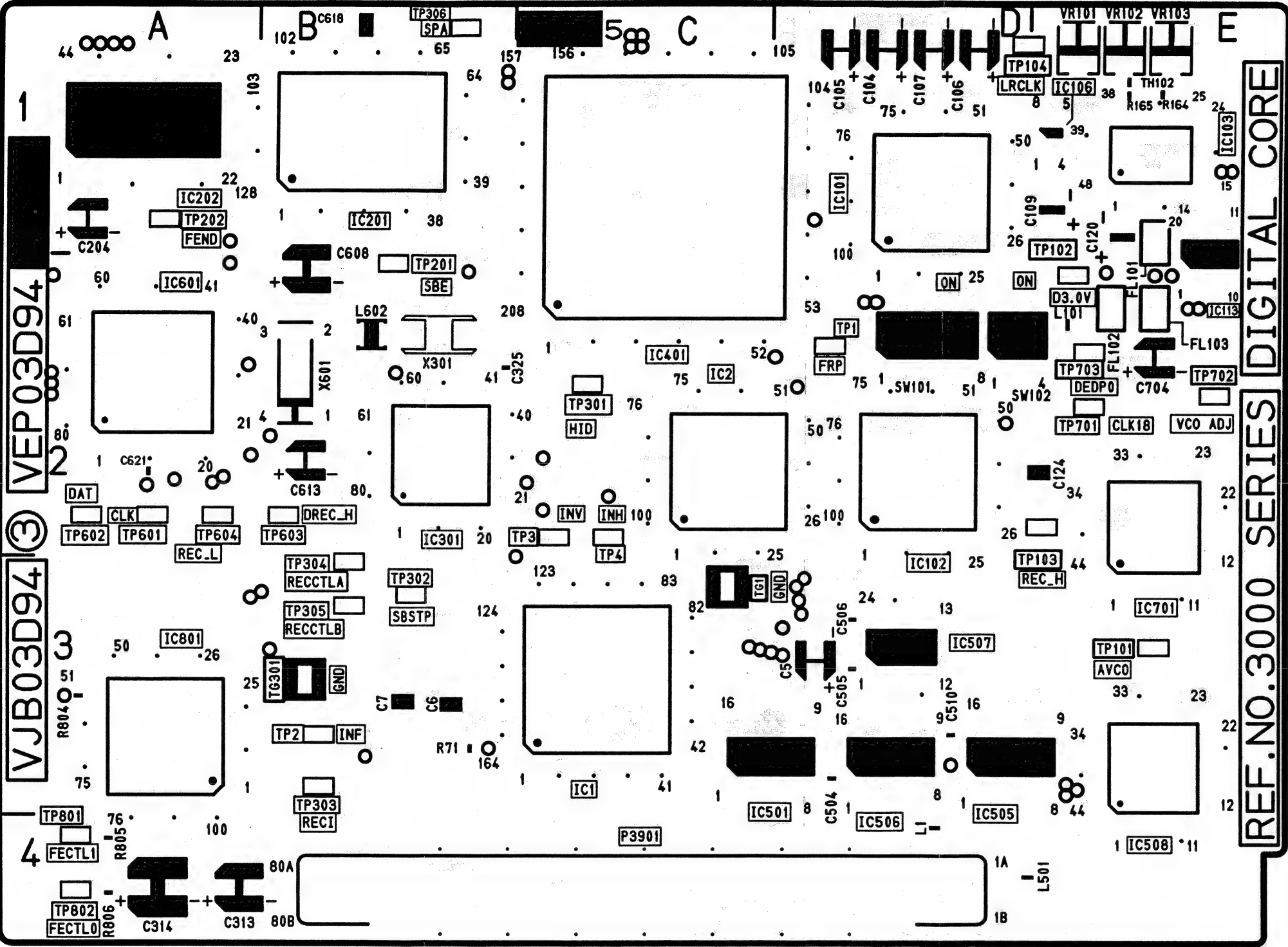
REF	LOC
IC3003	B3
IC3004	C3
IC3005	C3
IC3006	C3
IC3007	D3
IC3008	D2
IC3009	D3
IC3010	B3
IC3014	D2
IC3015	D3
IC3104	D2
IC3105	E1
IC3107	D1
IC3108	D1
IC3109	D1
IC3110	D2
IC3111	E1
IC3112	D2
IC3203	B1
IC3205	A1
IC3206	B1
IC3302	C2
IC3303	B3
IC3304	B3
IC3305	B4
IC3306	B3
IC3307	B2
IC3308	B2
IC3309	B2
IC3310	C2
IC3311	B2
IC3402	C1
IC3403	C1
IC3404	C1
IC3405	C1
IC3406	B1
IC3407	C1
IC3502	D3
IC3503	D3
IC3509	E3
IC3510	E4
IC3602	B2
IC3603	A2
IC3604	A3
IC3606	A3
IC3607	B1
IC3608	A2
IC3702	E2
IC3703	E2
IC3802	A4
Q3601	B2
QR3601	B2

(FOIL SIDE)

REVERSE SIDE (COMPONENT SIDE)

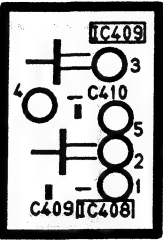
DIGITAL CORE (VEP03D94C) P.C. BOARD

DIGITAL SUB
(VEP00Z87A)
P.C. BOARD



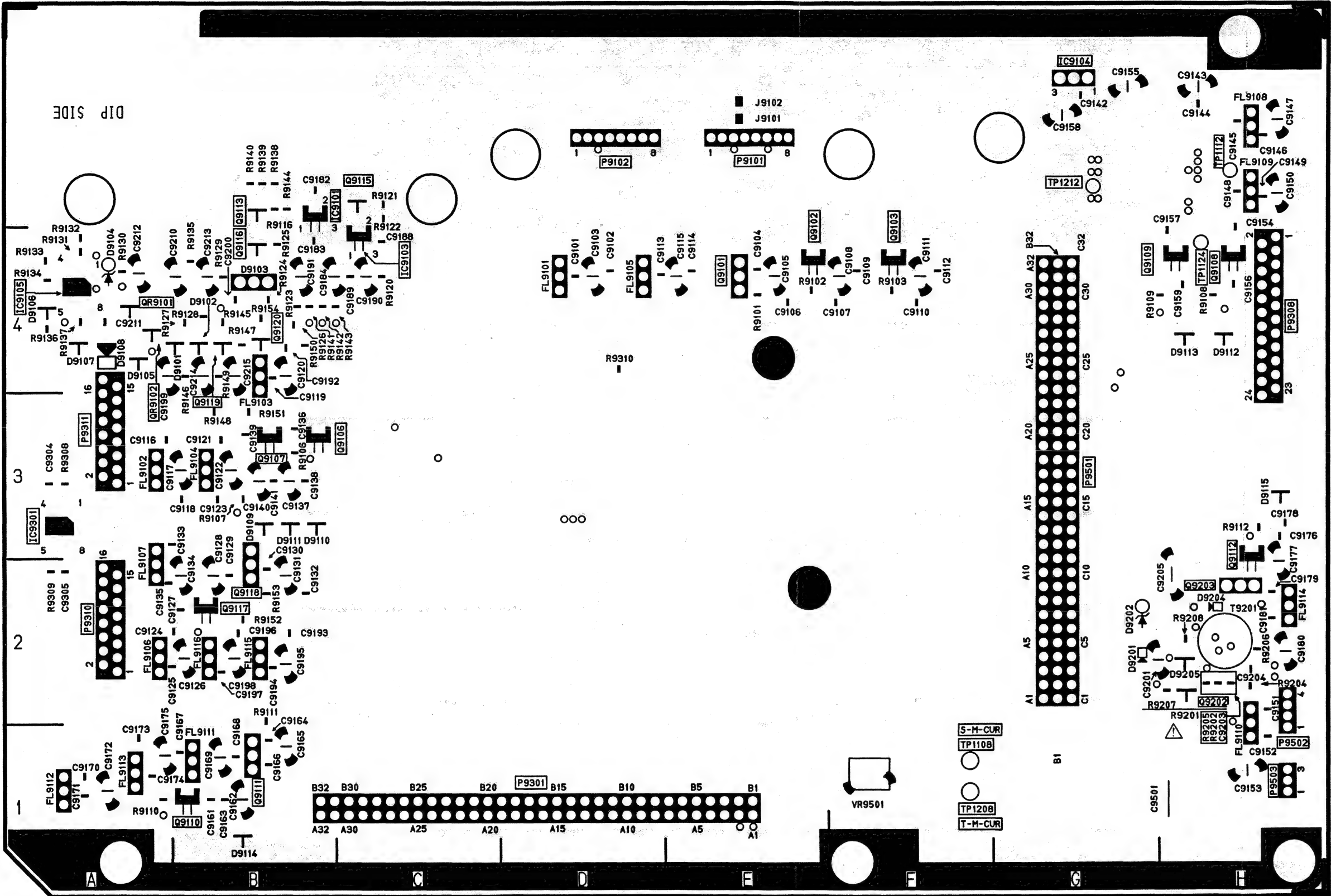
DIGITAL-COMPONENT

REF	LOC
IC3001	C3
IC3002	C2
IC3101	D1
IC3102	D2
IC3103	E1
IC3106	D1
IC3113	E2
IC3201	B1
IC3202	A1
IC3301	B2
IC3401	C1
IC3501	C3
IC3505	D3
IC3506	D3
IC3507	D3
IC3508	E3
IC3601	A2
IC3701	E2
IC3801	A3
P3901	C4
SW3101	D2
SW3102	D2
TG3001	C3
TG3301	A3
TP3001	D2
TP3002	B3
TP3003	C2
TP3004	C2
TP3101	E3
TP3102	E2
TP3103	D2
TP3104	D1
TP3201	B2
TP3202	A1
TP3301	C2
TP3302	B3
TP3303	B3
TP3304	B3
TP3305	B3
TP3306	B1
TP3601	A2
TP3602	A2
TP3603	A2
TP3604	A2
TP3701	E2
TP3702	E2
TP3703	E2
TP3801	A3
TP3802	A4
VR3101	E1
VR3102	E1
VR3103	E1



(COMPONENT SIDE)
REVERSE SIDE (FOIL SIDE)

MOTHER (VEP00Z78A) P.C. BOARD



MOTHER-FOIL

REF	LOC
IC9101	B4
IC9103	C4
IC9105	A4
IC9301	A3
Q9102	E4
Q9103	F4
Q9106	B3
Q9107	B3
Q9108	H4
Q9109	H4
Q9110	B1
Q9112	H2
Q9113	B5
Q9115	C5
Q9116	B4
Q9117	B2
Q9119	B4
Q9120	B4
Q9202	H2
QR9101	A4
QR9102	A4

警告

印の部品は安全上重要な部品です。
交換するときは、安全および性能維持の
ため必ず指定の部品をご使用ください。


JAPAN ONLY

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.


(FOIL SIDE)
REVERSE SIDE (COMPONENT SIDE)

REF	LOC
IC9104	G5
P9101	E5
P9102	D5
P9301	D1
P9304	D2
P9305	D2
P9306	D3
P9307	D4
P9308	H4
P9310	A2
P9311	A3
P9312	D3
P9501	G3
P9502	H2
P9503	H1
P9504	G5
P9505	G4
Q9101	E4
Q9111	B1
Q9118	B2
Q9203	H2
TP1108	F1
TP1208	F1
VR9501	F1

警告

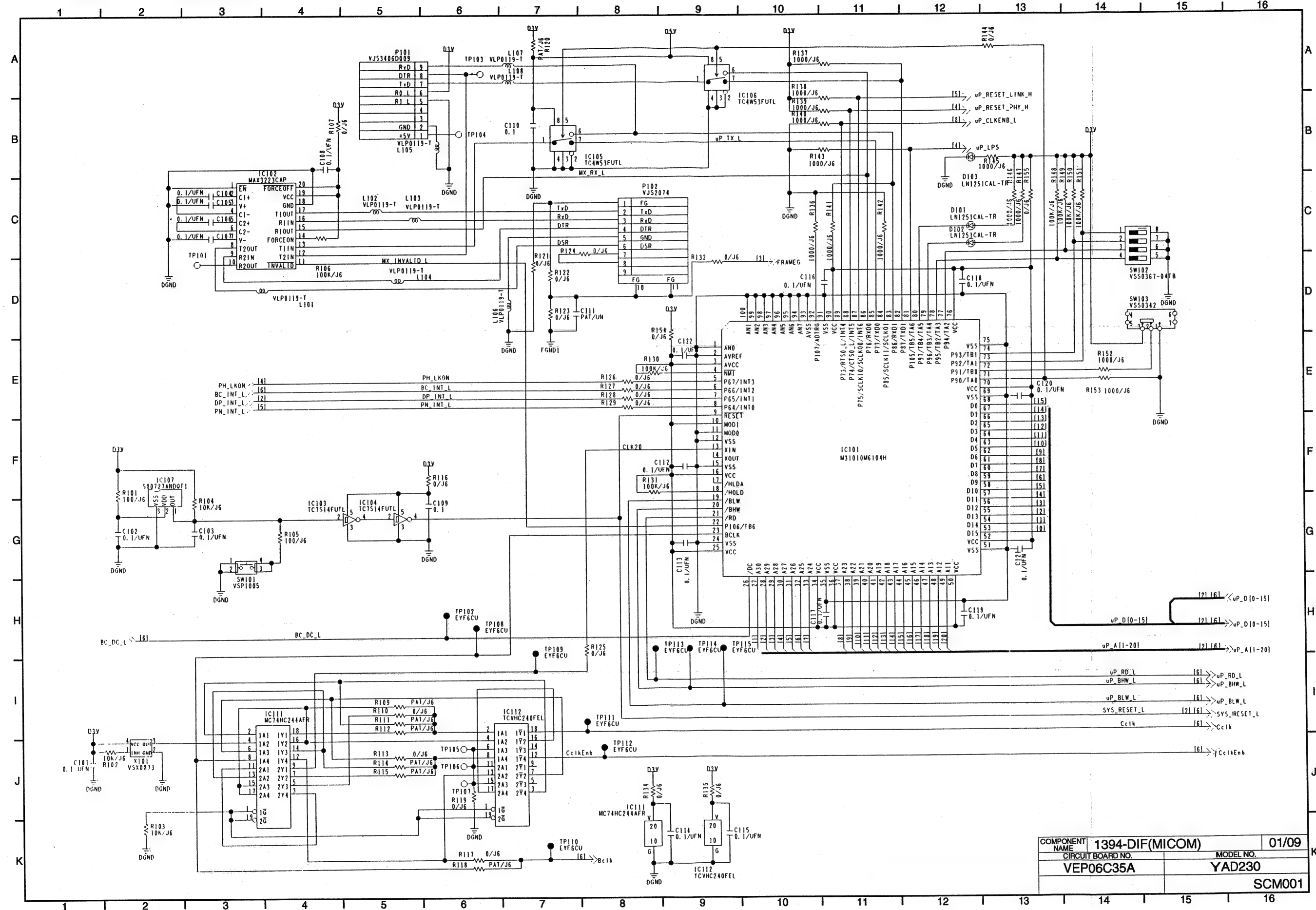
 印の部品は安全上重要な部品です。
交換するときは、安全および性能維持の
ため必ず指定の部品をご使用ください。

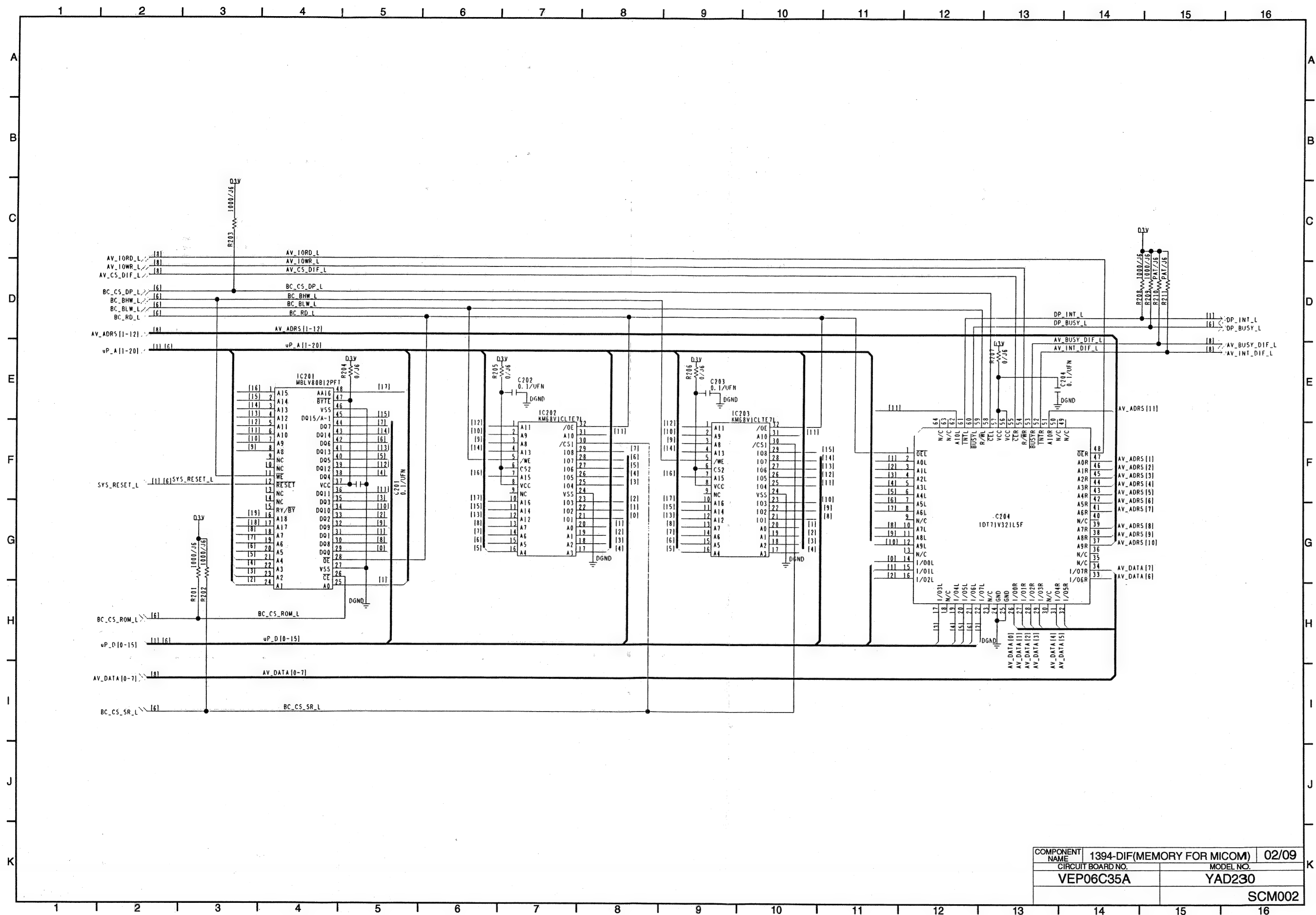
JAPAN ONLY

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

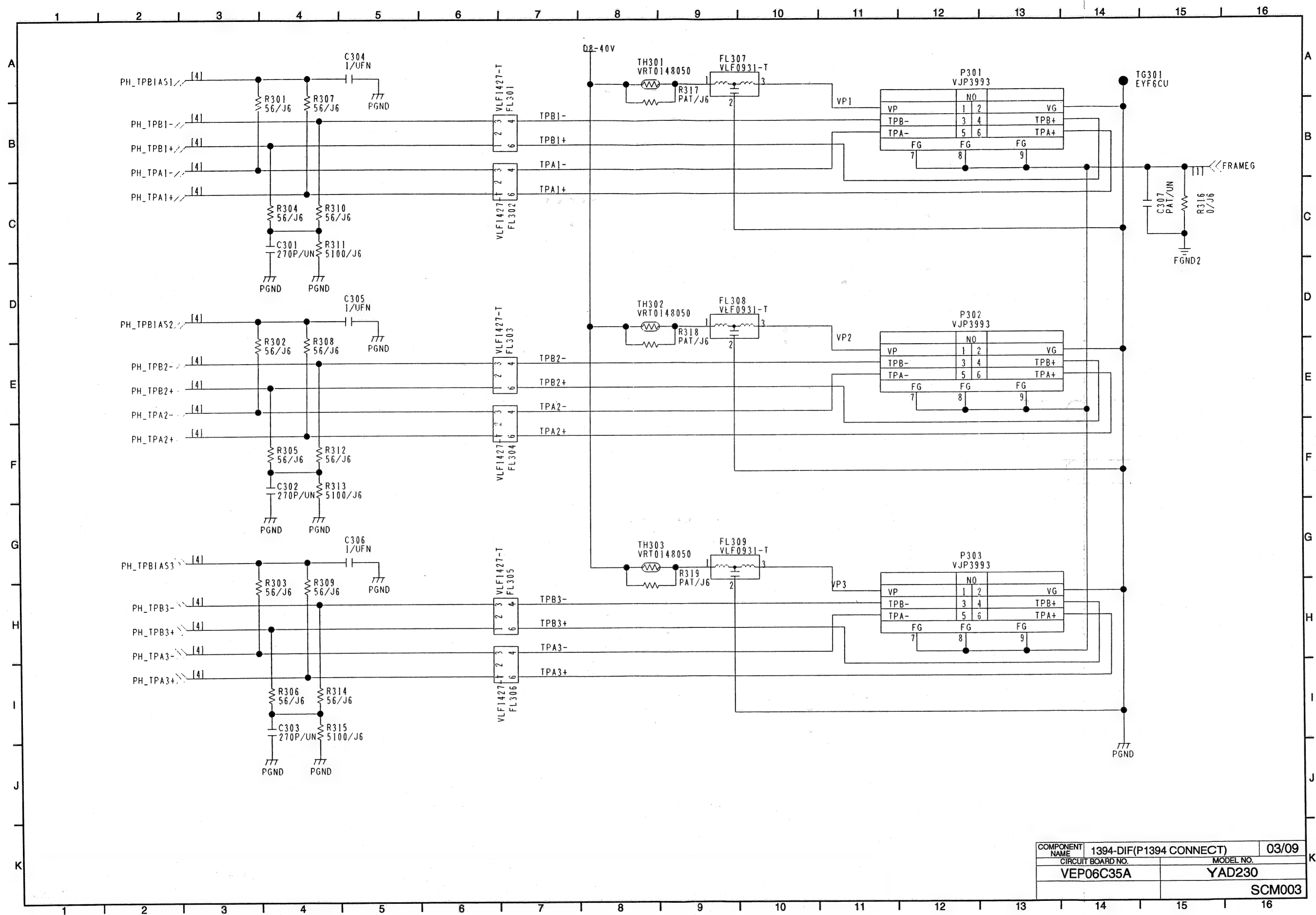
REVERSE SIDE (FOIL SIDE)

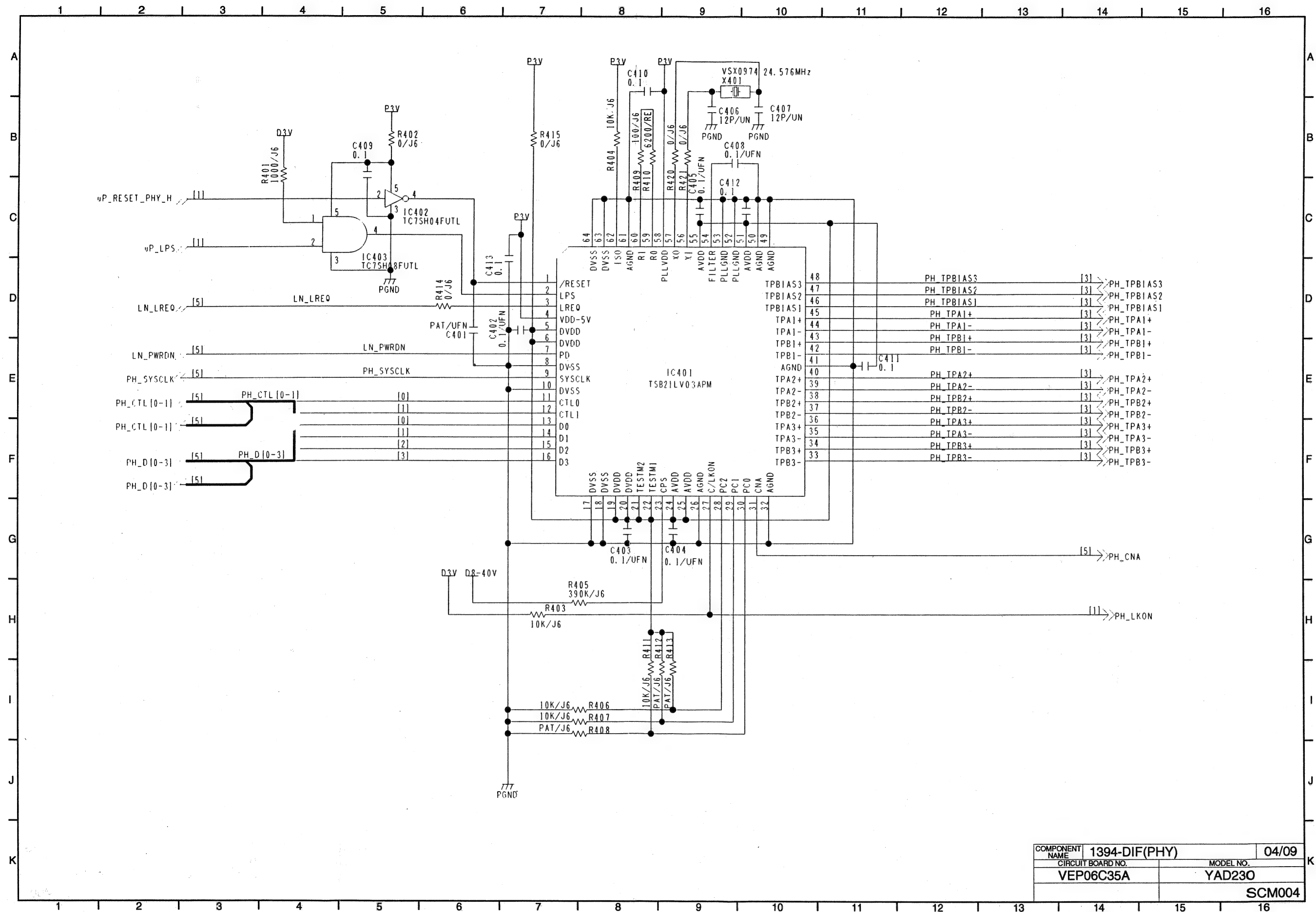
2. SCHEMATIC DIAGRAMS

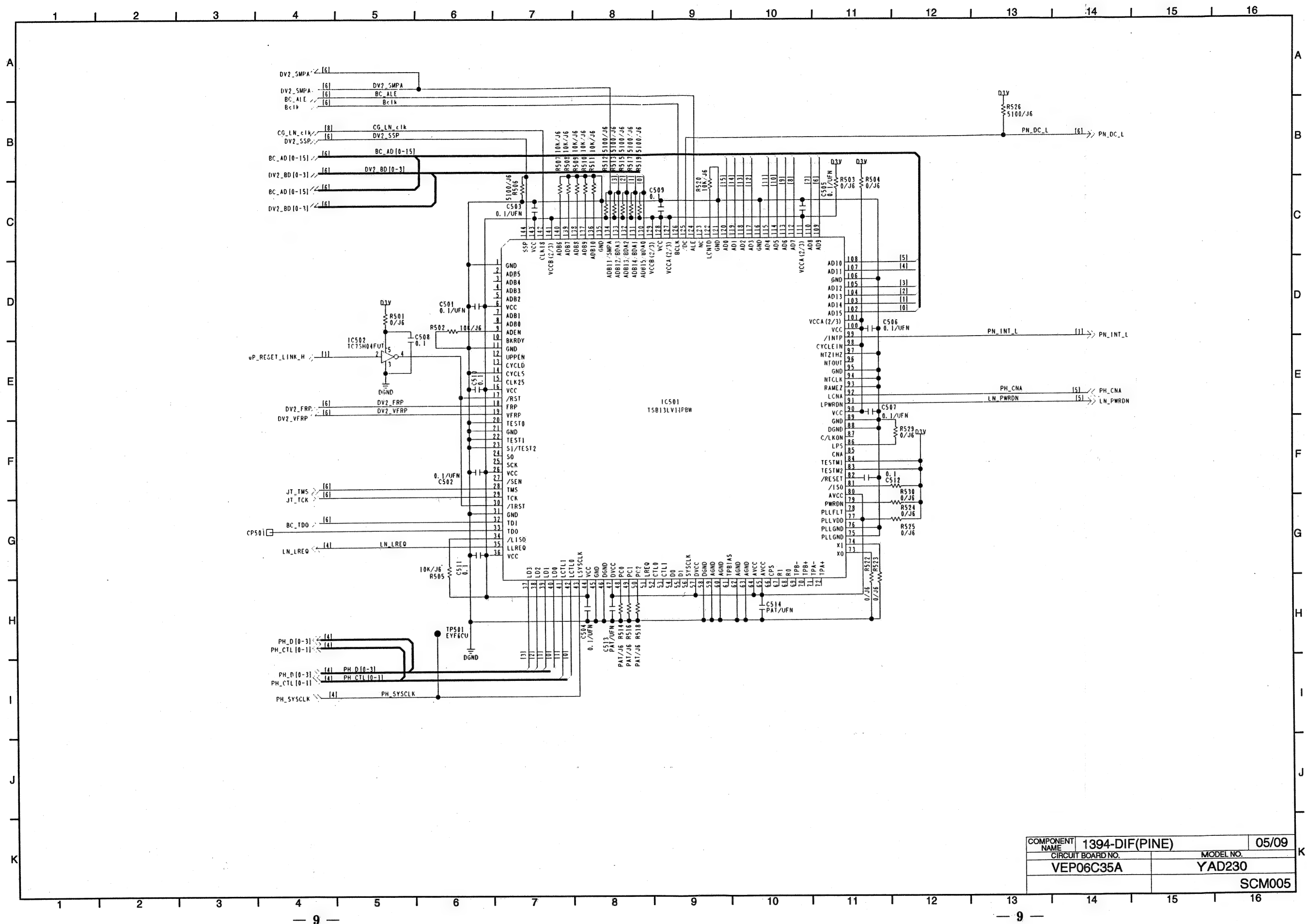




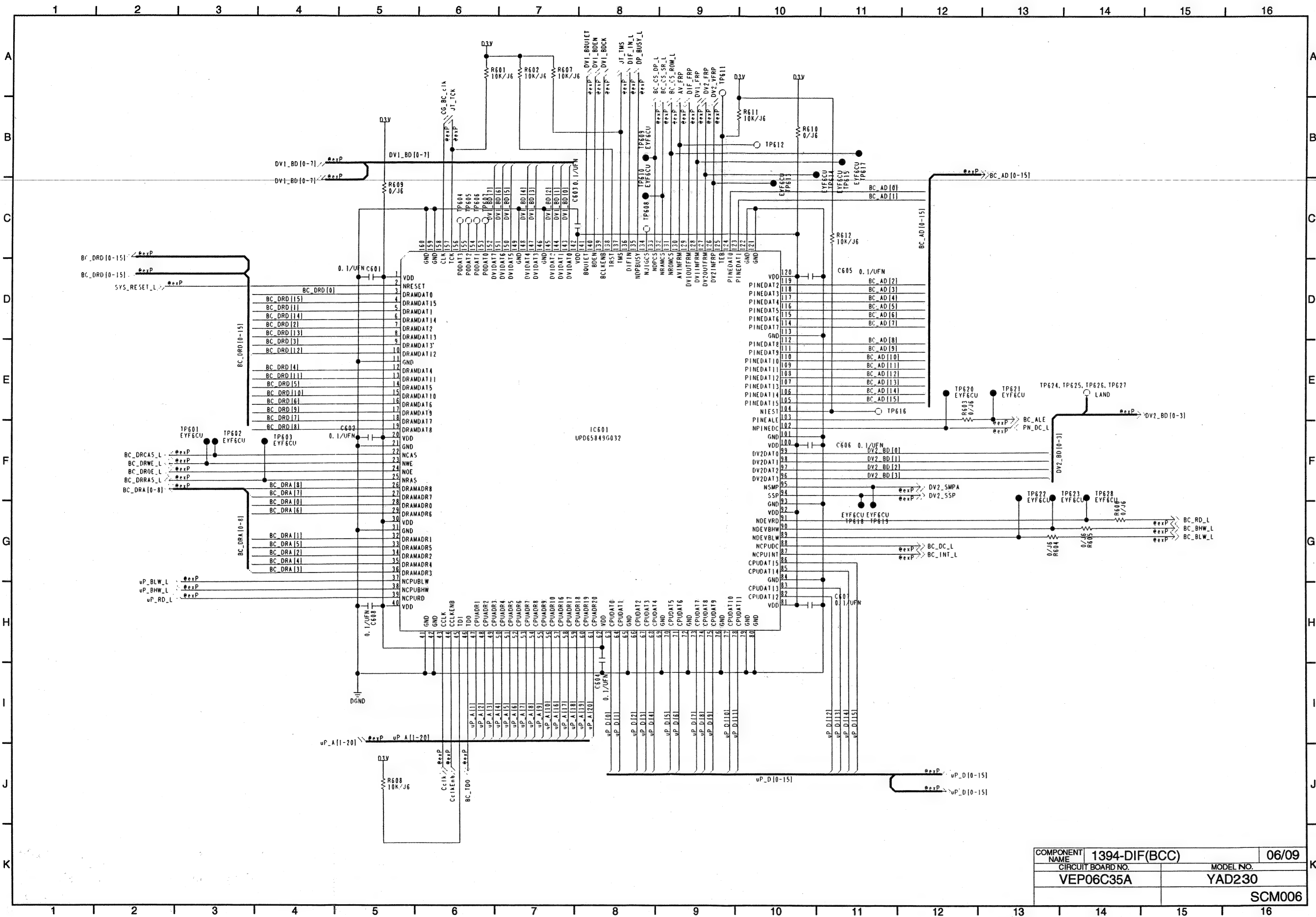
COMPONENT NAME	1394-DIF(MEMORY FOR MICOM)	02/09
CIRCUIT BOARD NO.	VEP06C35A	MODEL NO.
		YAD230
		SCM002



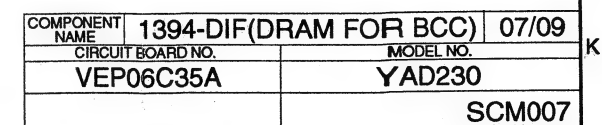


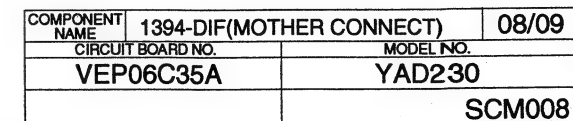


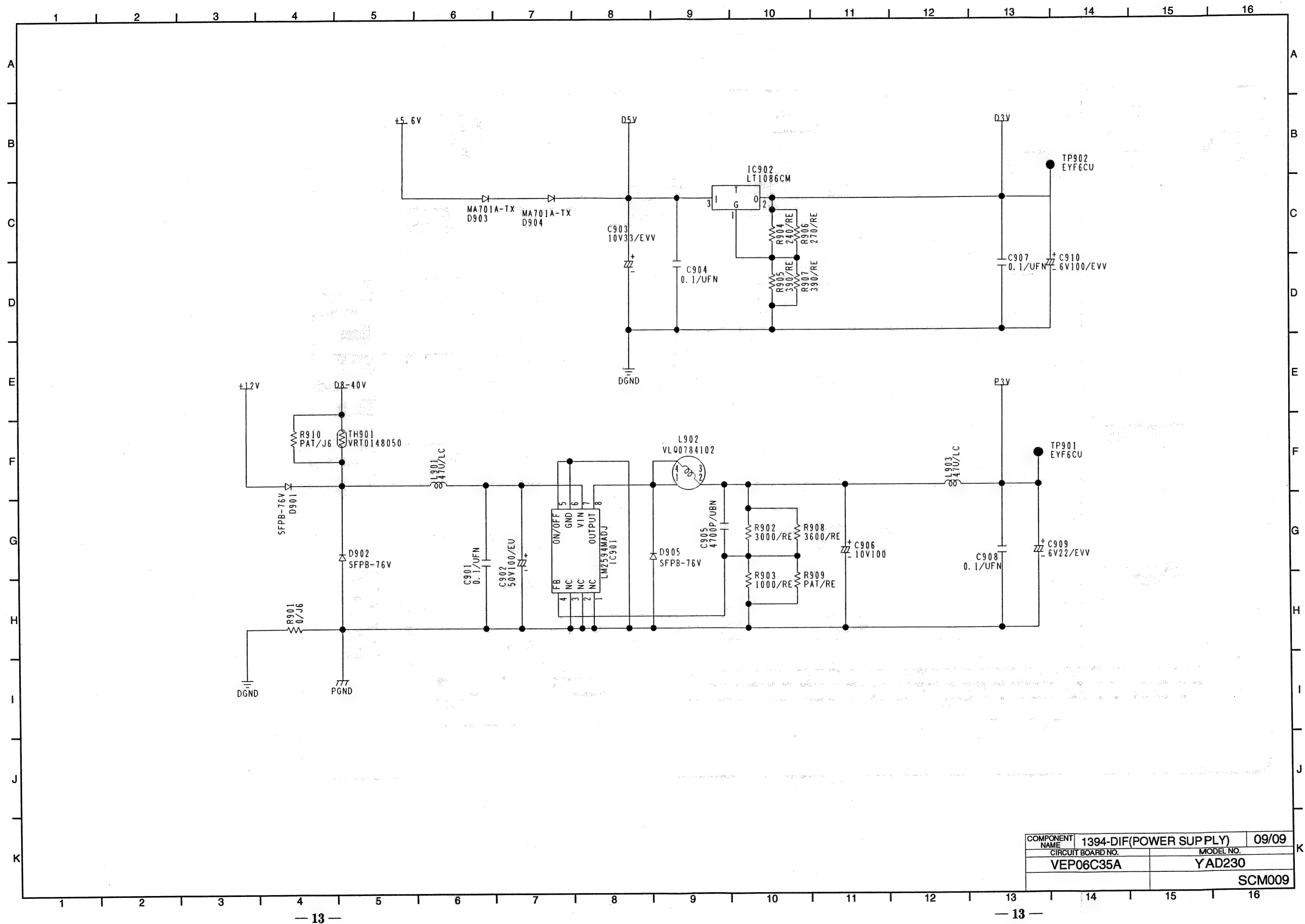
COMPONENT NAME	1394-DIF(PINE)	05/09
CIRCUIT BOARD NO.	VEP06C35A	MODEL NO. YAD230
		SCM005



COMPONENT NAME	1394-DIF(BCC)	06/09
CIRCUIT BOARD NO.	VEP06C35A	MODEL NO. YAD230
		SCM006

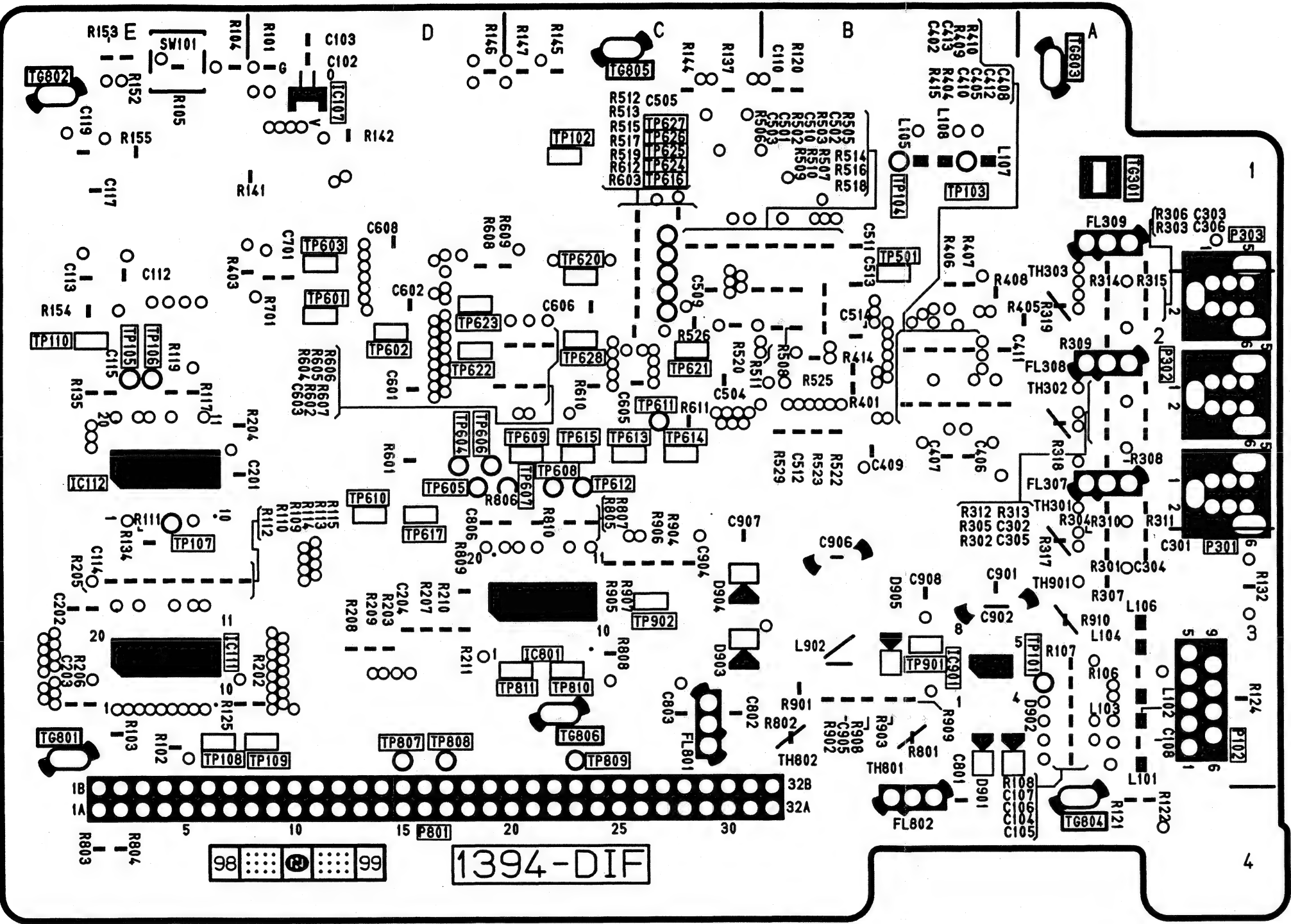






COMPONENT NAME	1394-DIF(POWER SUPPLY)	09/09
CIRCUIT BOARD NO.	VEP06C35A	MODEL NO. YAD230
		SCM009

3. 1394-DIF P.C. BOARD (VEP06C35A) FOIL SIDE

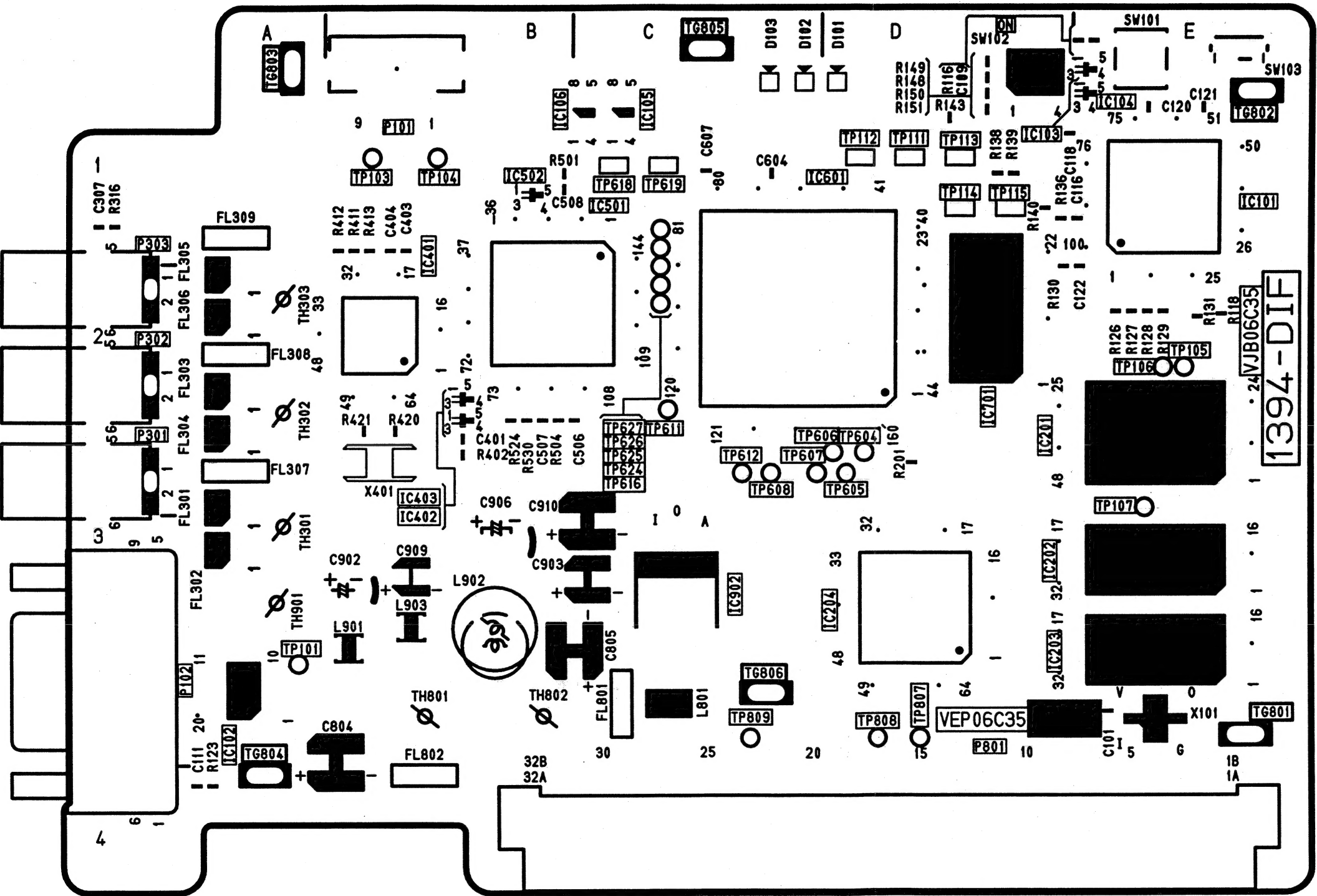


(FOIL SIDE)

DIF-FOIL

REF	LOC	REF	LOC
IC107	D1	TP604	D2
IC111	E3	TP605	D2
IC112	E2	TP606	D2
IC801	C3	TP607	C2
IC901	B3	TP608	C2
P102	A3	TP609	C2
P301	A3	TP610	D2
P302	A2	TP611	C2
P303	A1	TP612	C2
P801	D4	TP613	C2
TG301	A1	TP614	C2
TG801	E3	TP615	C2
TG802	E1	TP616	C1
TG803	A1	TP617	D2
TG804	A4	TP620	C1
TG805	C1	TP621	C2
TG806	C3	TP622	D2
TP101	A3	TP623	D2
TP102	C1	TP624	C1
TP103	B1	TP625	C1
TP104	B1	TP626	C1
TP105	E2	TP627	C1
TP106	E2	TP628	C2
TP107	E3	TP807	D3
TP108	E3	TP808	D3
TP109	D3	TP809	C3
TP110	E2	TP810	C3
TP501	B1	TP811	C3
TP601	D2	TP901	B3
TP602	D2	TP902	C3
TP603	D1		

4. 1394-DIF P.C. BOARD (VEP06C35A) COMPONENT SIDE

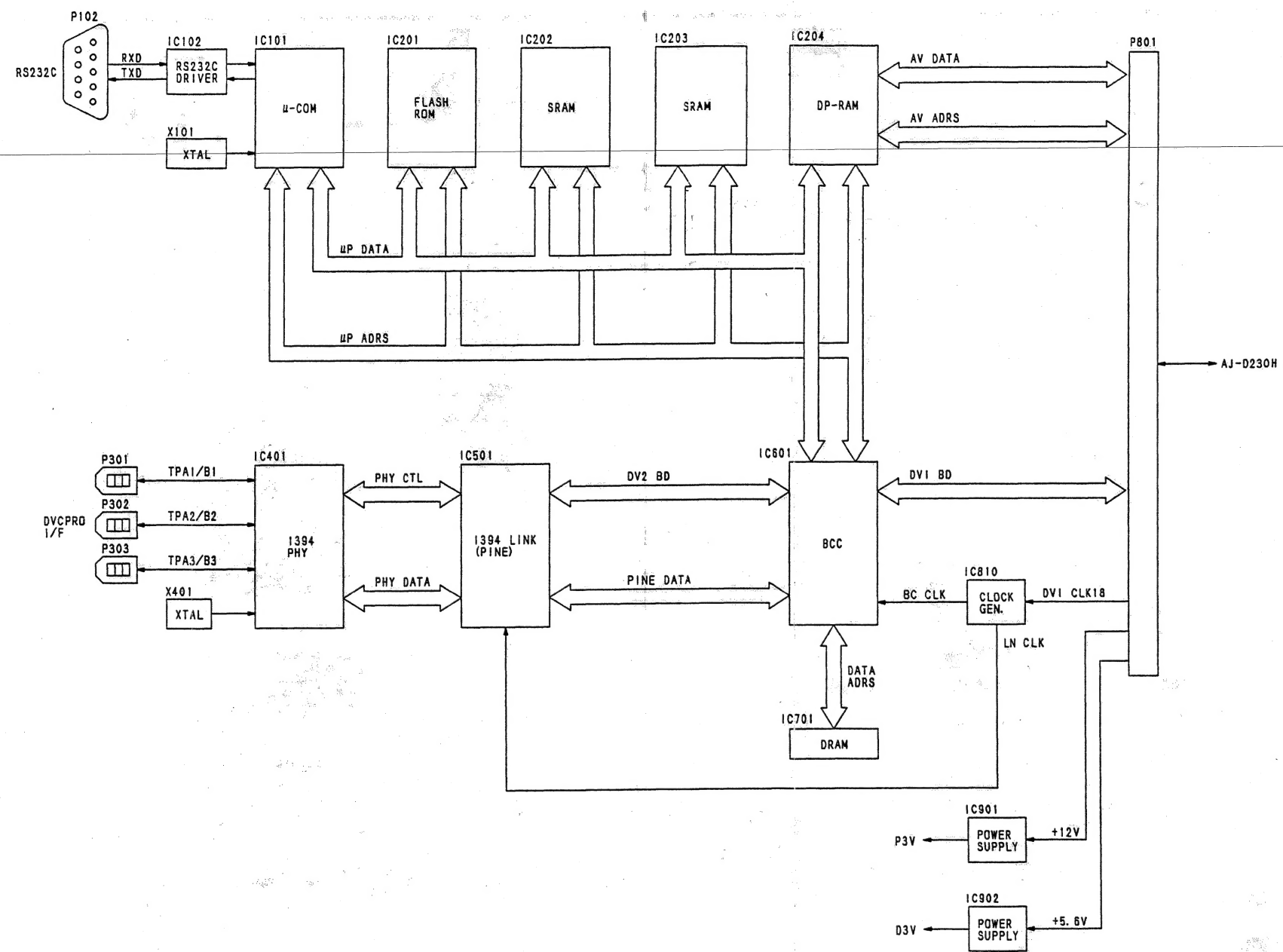


(COMPONENT SIDE)


DIF-COMPONENT

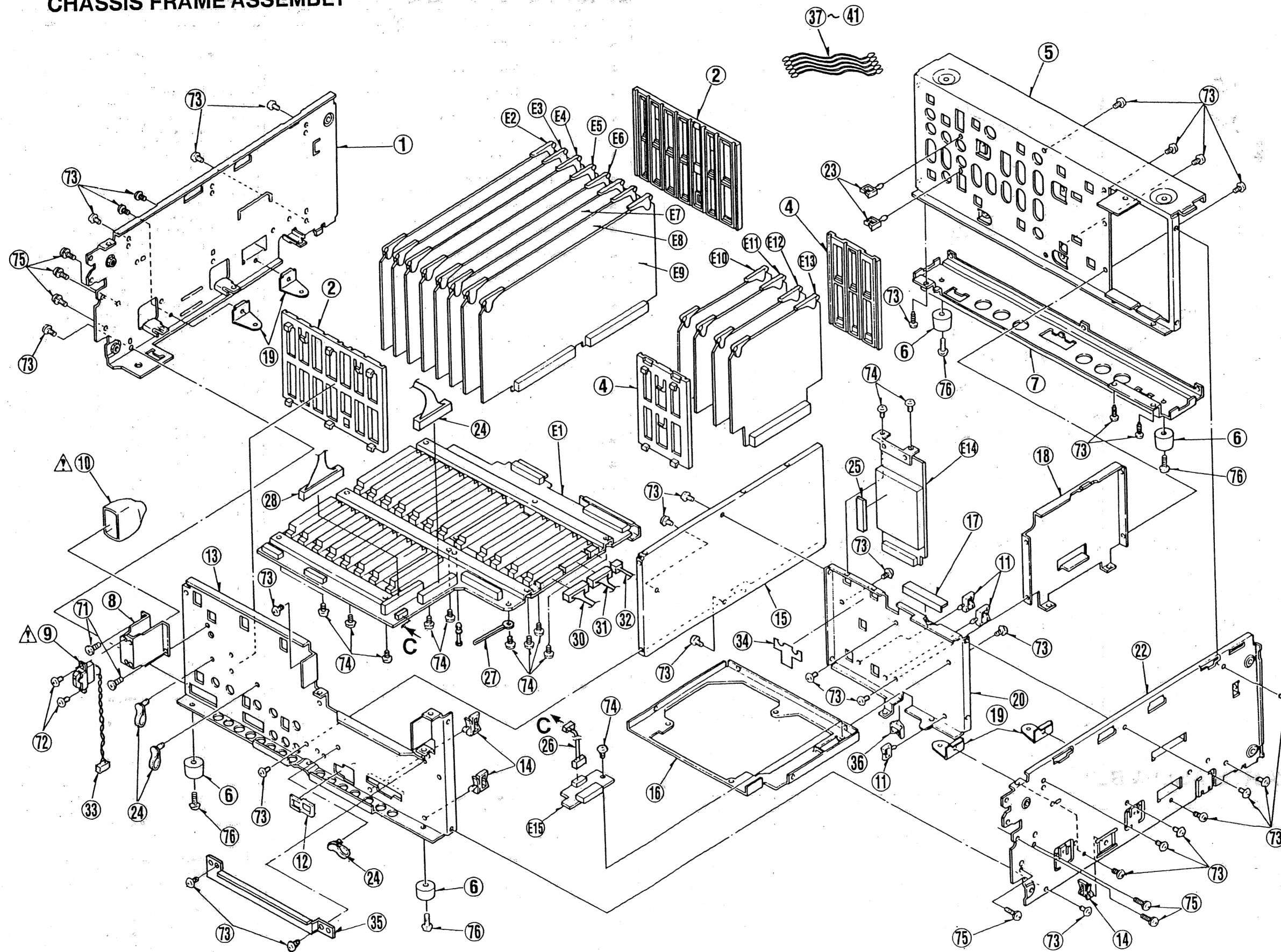
REF	LOC	REF	LOC
IC101	E1	TG805	C1
IC102	A3	TG906	C3
IC103	D1	TP101	A3
IC104	E1	TP103	B1
IC105	C1	TP104	B1
IC106	B1	TP105	E2
IC201	D2	TP106	E2
IC202	D2	TP107	E2
IC203	D2	TP111	D1
IC204	D3	TP112	D1
IC401	B1	TP113	D1
IC402	B2	TP114	D1
IC403	B2	TP115	D1
IC501	C1	TP604	D2
IC502	B1	TP605	D2
IC601	D1	TP606	D2
IC701	D2	TP607	C2
IC902	C3	TP608	C2
P101	B1	TP611	C2
P102	A3	TP612	C2
P301	A2	TP616	C2
P302	A2	TP618	C1
P303	A1	TP619	C1
P801	D3	TP624	C2
SW101	E1	TP625	C2
SW102	D1	TP626	C2
SW103	E1	TP627	C2
TG801	E3	TP807	D3
TG802	E1	TP808	D3
TG803	A1	TP809	C3
TG804	A3		

5. 1394-DIF OVERALL BLOCK DIAGRAM

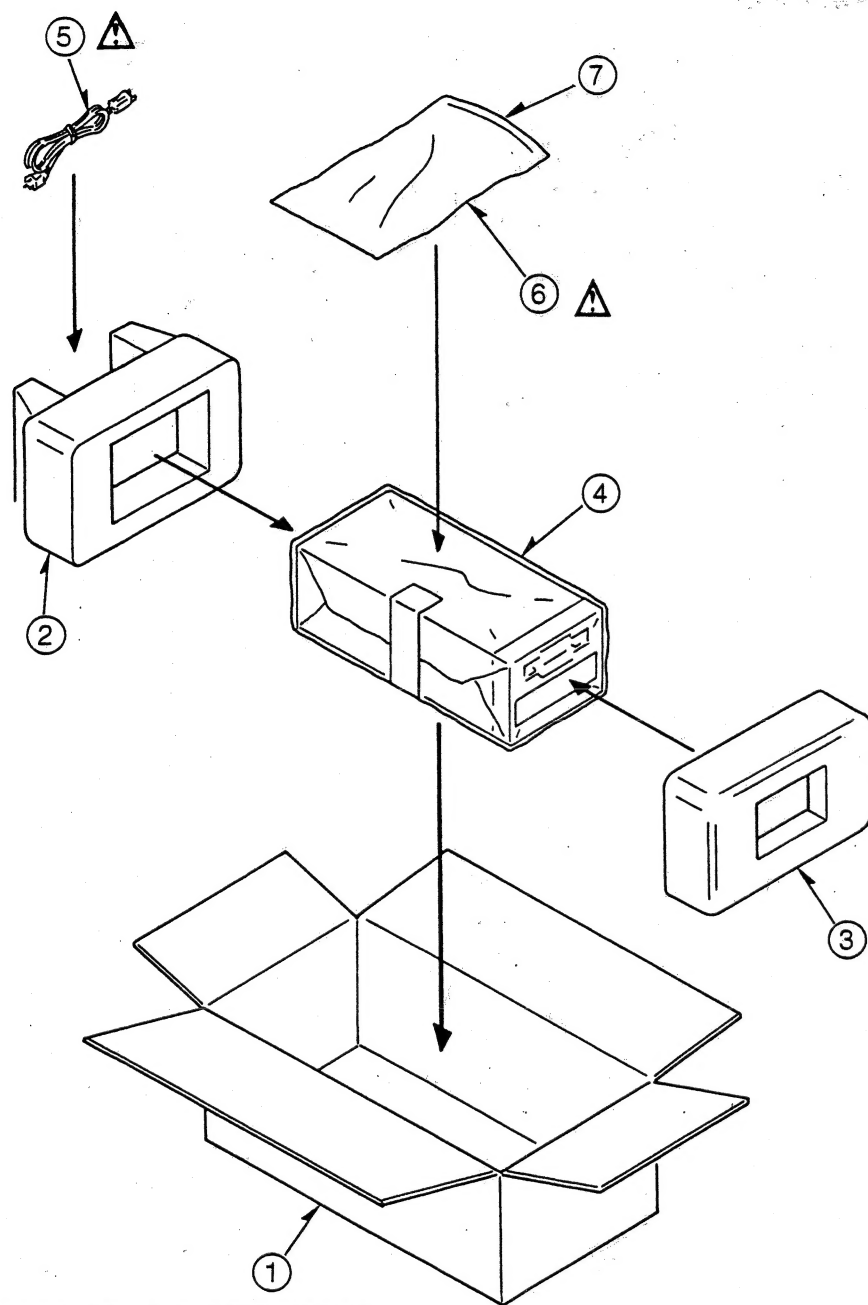


CHASSIS FRAME ASSEMBLY

Components identified with the mark  have the special characteristics for safety.
When replacing any of these components, use only the same type.



PACKING PARTS ASSEMBLY



PACKING PARTS ASSEMBLY

[illegible]

ELECTRICAL REPLACEMENT PARTS LIST

[illegible]